IAP Cover SheetVersion Name: Period 10Incident Name: 2018 Superior Refinery FirePeriod: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Approved By

Incident Commander:

Goedde, Ed

Incident Action Plan

IAP Cover Sheet		Prepared By Planning, Updated 05/18/2018 07:17 UTC -6:00 PP		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 1 of 81	© TRG	

Table of Contents	
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/18 06:00 - 05/22/18 06:00]
Report Name	Page
IAP Cover Sheet	1
Weather Report	3
Map/Sketch	4
ICS 202 - Incident Objectives	3
ICS 202b - Critical Information Requirements	Ş
ICS 204 - Assignment List	10
ICS 205 - Radio Communications	51
ICS 205a - Communications List	52
ICS 206 - Medical Plan	53
ICS 207 - Organization Chart	61
ICS 208 - Site Safety Plan	63
Asset Assessment Plan - Crude Unit	65
Hot Zone PPE Requirement Change	79

 Weather Report
 Version Name: 20180518_1600

 Incident Name: 2018 Superior Refinery Fire
 Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

 Present Conditions

 Weather Conditions as of 05/18/2018 15:18

superior, wi us station id: MID_KSUW

Humidity (%): 58

Wind Speed: 13 mph
Wind Direction (from): ENE

Temperature: 49 Fahrenheit

Visibility: 10 mile(s)

Pressure: 30 psi

Dew Point: 35

Feels Like: 44

UV Index:

Sunny

Forecast Date	Wind	Temp High/Low	% Precip	Sunrise/ Sunset	Notes
Fri 05/18/2018	10 mph ENE	45 F	20		Isolated showers after 11pm. Increasing clouds, with a low around 45. Breezy, with an east wind 5 to 15 mph becoming south after midnight. Winds could gust as high as 20 mph. Chance of precipitation is 20%.
Sat 05/19/2018	10 mph W	57 F	30		A 30 percent chance of showers, mainly after noon. Mostly cloudy, with a high near 57. Breezy, with a west wind 5 to 15 mph becoming northeast in the afternoon. Winds could gust as high as 20 mph.
	5 mph NE	37 F	20		A 20 percent chance of showers before 1am. Partly cloudy, with a low around 37. Northeast wind 5 to 10 mph.
Sun	5 mph E	64 F	10		Sunny, with a high near 64. East wind around 5 mph.
05/20/2018	5 mph E	41 F	0		Mostly clear, with a low around 41. East wind around 5 mph becoming north after midnight.
Mon	6 mph NE	65 F	10		Mostly sunny, with a high near 65.
05/21/2018	5 mph E	42 F	10		Partly cloudy, with a low around 42.

Tides

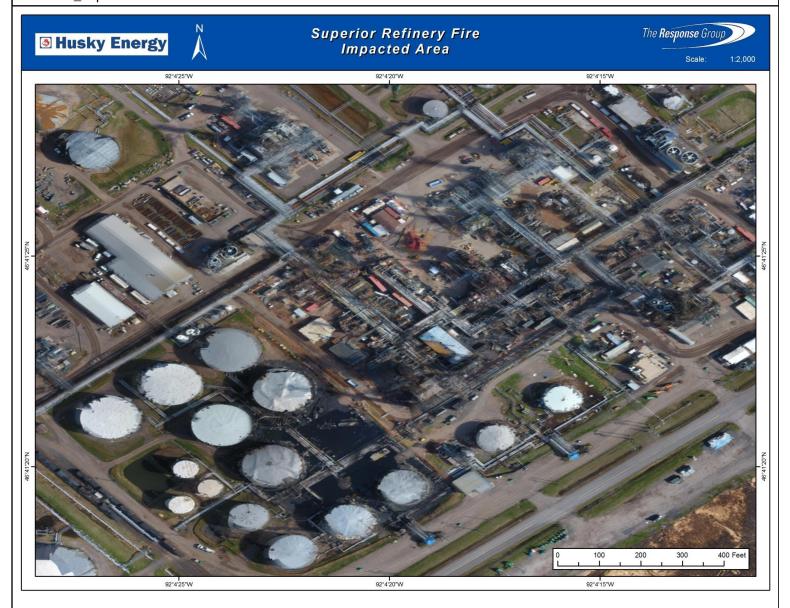
Weather Report		Prepared By Situation Unit, Updated 05/18/2018 15:33 UTC -6:00 PP		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 3 of 81	© TRG	

 Map/Sketch
 Version Name: 20180514_Impacted Area

 Incident Name: 2018 Superior Refinery Fire
 Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Incident Map/Sketch

20180514_Impacted Area



Map/Sketch		Prepared By Travis Hill, Updated 05/14/2018 18:11 UTC -6:00 PP		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 4 of 81	© TRG	

Map/Sketch Version Name: 20180514_Processing Plant Imagery

Incident Name: 2018 Superior Refinery Fire

Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Incident Map/Sketch

20180514_Processing Plant Imagery



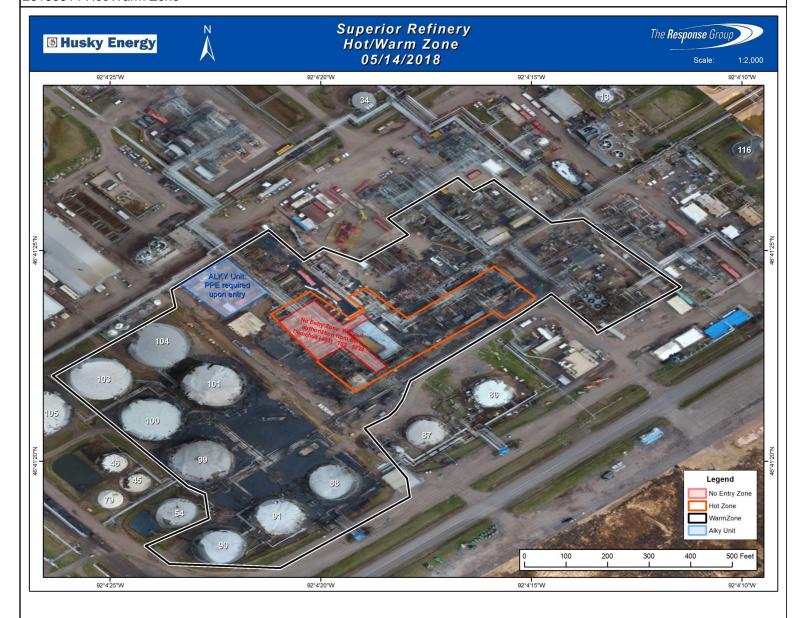
Map/Sketch		Prepared By Travis Hill, Updated 05/14/2018 18:17 UTC -6:00 PP		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 5 of 81	© TRG	

 Map/Sketch
 Version Name: 20180514 Hot/Warm Zone

 Incident Name: 2018 Superior Refinery Fire
 Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Incident Map/Sketch

20180514 Hot/Warm Zone



Map/Sketch		Prepared By Travis Hill, Updated 05/14/2018 15:55 UTC -6:00 PP		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 6 of 81	© TRG	

Map/Sketch Version Name: 20180514_Map for Crane

Incident Name: 2018 Superior Refinery Fire Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Incident Map/Sketch

20180514_Map for Crane



Map/Sketch		Prepared By Travis Hill, Updated 05/14/2018 18:11 UTC -6:00 PP		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 7 of 81	© TRG	

CS 202 - Incident Objectives ncident Name: 2018 Superior Refinery Fire		Version Name: Period 10
		Daried, Daried 40 [05/40/0040 00:00 05/00/0040 00 00
	Ohio otiv	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00
Ensure the Safety of the public and Refinery Personnel	Objectiv	e(s)
ncident stabilization		
vidence Preservation		
/linimize environmental impacts		
Keep Stakeholders Informed of Response Activities		
Monitor social and local media		
Operational Period Command Emphasis (Safety M	lessage, Priorities, Key Decisions/Directions)
		n Components
X IAP Cover Sheet	X	Weather Report
x Map/Sketchx ICS 202b - Critical Information Requirements	X	ICS 202 - Incident Objectives ICS 204 - Assignment List
x ICS 202b - Critical Information Requirements x ICS 205 - Radio Communications	x	ICS 204 - Assignment List ICS 205a - Communications List
x ICS 206 - Medical Plan	x	ICS 207 - Organization Chart
x ICS 208 - Site Safety Plan	x	Asset Assessment Plan - Crude Unit
x Hot Zone PPE Requirement Change		

ICS 202b - Critical Information Requirements	Version Name: Period 10
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Incident Command - Critical Threshold Reporting Criteria

** If any of these conditions are met, Incident Commander must be notified immediately **

- Injury or Death (OSHA/1st Aid or greater through Safety Officer)
- Significant change of status of site conditions
- Public health impacts
- Impacted sensitive areas beyond protection/Any change to trajectories
- Loss of major tactical resources
- Unplanned VIP visits en-route/planning/arriving
- Adverse protest plans or interview requests
- Adverse political/influence
- Loss or breach of containment
- Any breach in safety/investigation zone
- Special requests from agencies
- Any changes to respiratory requirements (eg: SCBA)
- Any evidence wildlife impact
- Any exceedance of an air monitoring action level

ICS 204 - Assignment List	Task Force: De-Inventory Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Operations Personnel					
Position	Name	Affiliation	Contact Number(s)	Work Shift	
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161		
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594		
Stabilization Group Supervisor	Thom, Tim	Husky Energy Inc.	715-817-8016		
De-Inventory Task Force	Laszewski, Aaron	Husky Energy Inc.	920-883-1992		
De-Inventory Task Force	Ivanca, Erin	Husky Energy Inc.	651-592-6339		
De-Inventory Task Force	Campbell, Adam	Husky Energy Inc.	218-491-4920		
De-Inventory Task Force Leader	Witherill, Troy	Husky Energy Inc.	218-522-0114		

Area Of Operation	Resource Kind	Description	Quantity	Size
De-Inventory Task Force	Manpower: Responder	Engineer	7	
De-Inventory Task Force	Manpower: Responder	Project Manager	1	
De-Inventory Task Force	Manpower: Responder	Project Control	1	
De-Inventory Task Force	Equipment: Safety VCU		2	
De-Inventory Task Force	Manpower: Responder	Contractors	29	

Assignments

De-inventory the Platformer unit as per approved plan.

De-inventory the Main column overhead receiver as per approved plan.

Continue to develop the hydrocarbon de-inventory plans for priority assets:

- FCC Gas con stripper
- FCC Gas con Debutanizer
- ISOM
- #2 Hydrobon
- #2 DUF
- North Crude
- Main column overhead receiver

SRS/Evergreen to assist with plan development

No operations on additional units until final approvals have been completed

Hydrocarbon de-inventory plan for each unit will be approved by the following:

- Incident Commander
- Operations Section Chief
- Planning Section Chief
- Environmental Unit Leader
- Safety Officer
- Lead Investigator

Communications		
Name / Function	Contact Details	
ERT Channel	8	
Channel 1 Talk Around	11	
Primary	1	

ICS 204 - Assignment List		Updated 05/07/2018 17:09 UTC -6:00		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 10 of 81	© TRG	

ICS 204 - Assignment List	Task Force: De-Inventory Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Communications		
Name / Function	Contact Details	
Secondary	2	
Radio	3 to 7	
	Special Environmental Considerations	

Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.

Prior to commencing de-inventory activities, notify GHD so task specific monitoring can commence to verify site and public safety. Once de-inventory events commence, notification of any venting/release of vapor/liquid hydrocarbon to the environment shall be made to the GHD air monitoring group immediately for consideration in air monitoring.

Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.

Special Site-Specific Safety Considerations

Refer to individual De-inventory safety plans for additional requirements.

If in Hot Zone, must follow Hot Zone Procedures. All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further guidance.

A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.

Ensure that air monitoring, including 4-Gas and product specific (Benzene, Hydrogen Sulfide, etc.) is done during the deinventory process.

Hazard assessment must be done to plan safe work.

Be cognizant of the hazards of the hazards of Nitrogen, unit contents including Benzene, H2S, petroleum products, etc.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Additional Information

ICS 204 - Assignment List		Updated 05/07/2018 17:09 UTC -6:0	
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 11 of 81	© TRG

ICS 204 - Assignment List	Task Force: Chemical Removal Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Stabilization Group Supervisor	Thom, Tim	Husky Energy Inc.	715-817-8016	
Chemical Removal Task Force Leader	McCusker, Brian	Husky Energy Inc.	218-348-9769	

Area Of Operation	Resource Kind	Description	Quantity	Size
Chemical Removal Task Force	Manpower: Responder	Day Shift Responders	4	
Chemical Removal Task Force	Manpower: Responder	Night Shift Responders	7	

Assignments

Operations will:

- Continue HF air monitoring
- Maintain deluge system around HF tank
- Impliment assignments per the store in place bow tie action tracker.
- Impliment the assigments for the API 751 audit.

Four (4) options continue to be developed in parallel by HF Alkylation Consultants and SPSI in order to evaluate and mitigate risk:

- 1) Neutralize on-site
- 2) Transfer to an off-site facility
- 3) Retain on-site with safeguards in place
- 4) Other safe management alternatives

Communications		
Name / Function	Contact Details	
ERT Channel	8	
Channel 1 Talk Around	11	
Primary	1	
Secondary	2	
Radio	3 to 7	

Special Environmental Considerations

All precautions should be taken to minimize release of any chemical to the environment. If chemical is released the environmental unit leader shall be notified immediately. Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly. Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for

consideration in air monitoring. Any liquid hydrocarbon release shall be cleaned up immediately.

ICS 204 - Assignment List		Updated 05/11/2018 15:20 UTC -6:00		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 12 of 81	© TRG	

^{**}No additional operations until final approvals have been received**

ICS 204 - Assignment List	Task Force: Chemical Removal Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Special Site-Specific Safety Considerations

If in Hot Zone, must follow Hot Zone Procedures including Bunker Gear, ERT escort, 4-Gas Monitor and sign in at ERT Response Center.

In Alky Unit, fixed HF air monitors do not currently work. Rely on personal HF monitors and area monitors for determination of HF within the air.

In Alky Unit, fixed water cannons are not operational. If there is a potential for a leak of HF Acid, stage water nozzles and verify antiquate coverage of water spray to mitigate a release.

If in Warm or Cold Zone, refinery PPE must be worn except where HF Akly Gear is required and that must be worn. Refer to Permit writers for further guidance.

A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.

Hazard assessment must be done to plan safe work.

Be cognizant of the hazards of the products being handled including hydrofluoric acid and other hazards of the Alkylation Unit.

Emergency Alarm system will signal need to evacuate from the site.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

Additional Information

ICS 204 - Assignment List			Updated 05/11/2018 15:20 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 13 of 81	© TRG

ICS 204 - Assignment List	Task Force: Steam Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Stabilization Group Supervisor	Thom, Tim	Husky Energy Inc.	715-817-8016	
Steam Task Force Leader	Amato, Joe	Husky Energy Inc.	715-969-7724	
Steam Task Force Leader	Smith, Doug	Nexus Engineering	419-346-5987	

Area Of Operation	Resource Kind	Description	Quantity	Size
Steam Task Force	Manpower: Responder	Day Shift Responders	3	
Steam Task Force	Manpower: Responder	Engineer	1	
Steam Task Force	Manpower: Responder	Project Manager	1	·

Assignments

Develop plan to re-instate steam on site to enable long term preservation of assets. Plan to include evaluation of bring on site package boiler and associated permits.

Identify safe isolation and tie in points for packaged boiler.

Finalized Plan to be reviewed and approved by:

- Operations Section Chief
- Planning Section chief
- Safety Officer
- Environmental Unit Lead
- Incident Commander

Special Environmental Considerations

If temporary boiler is needed a permit/exemption letter from the WDNR will need to be obtained prior to bringing it on-site.

Special Site-Specific Safety Considerations

If in Hot Zone, must follow Hot Zone Procedures. All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further guidance.

A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.

When working along the refinery perimeter, be cognizant of slip, trip and fall hazards.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

Emergency Alarm system will signal need to evacuate from the site.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

ICS 204 - Assignment List			Updated 05/14/2018 11:49 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 14 of 81	© TRG

^{**}No operations to proceed prior to approval and permits in place**

ICS 204 - Assignment Lis	st .		Task Force: Steam Task Force
Incident Name: 2018 Superior R	efinery Fire	Period: Period 10 [05/19	/2018 06:00 - 05/22/2018 06:00]
		Information	
If impacted wildlife are observed 398-8220 or 221	I. Do not approach or attempt to	capture. Please contact Husky H	lill Avenue guard shack at 715-
ICS 204 - Assignment List			Updated 05/14/2018 11:49 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 15 of 81	© TRG

ICS 204 - Assignment List	Task Force: Pyrophoric Task Force	
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]	

Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Stabilization Group Supervisor	Thom, Tim	Husky Energy Inc.	715-817-8016	
Pyrophoric Task Force Leader	Campbell, Adam	Husky Energy Inc.	218-491-4920	

Area Of Operation	Resource Kind	Description	Quantity	Size
Pyrophoric Task Force	Foreman	Foreman	2	

Assignments

Identify the high risk areas for iron sulfide and mitigation measures.

Special Site-Specific Safety Considerations

If in Hot Zone, must follow Hot Zone Procedures. All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further guidance.

Be cognizant of the hazards of the products being handled.

If working along the permiter fence or other Husky property outside of refinery, contact security guards at 715-398-8220 to make them aware of your presence. Otherwise, the police will be called.

When working along the refinery perimeter, be cognizant of slip, trip and fall hazards.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

Emergency Alarm system will signal need to evacuate from the site.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be sure to wear a life jacket when working over water. Life jackets are available in the Warehouse.

Inspect for ticks when traveling in grassy or wooded areas.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an announcement on the plant radio system if there are special precautions or if there is a need to take shelter.

ICS 204 - Assignment List		Updated 05/18/2018 12:53 UT	
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 16 of 81	© TRG

ICS 204 - Assignment List	Task Force: Energy Restoration Task For	
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]	

Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Mechanical Group Supervisor	Rikkola, Ken	Husky Energy Inc.	218-343-9538	
Energy Restoration Task Force Leader	Carlson, Brad	Husky Energy Inc.	218-390-5182	
Energy Restoration Task Force Leader	Massie, Nik	Husky Energy Inc.	715-817-1209	

Area Of Operation	Resource Kind	Description	Quantity	Size
Energy Restoration Task Force	Manpower: Responder	Electricians	8	
Energy Restoration Task Force	Supervisor	Supervisor	2	

Assignments

- 1) Submit plan for energizing the following areas:
- J Building Video recorder and associated fiber optic switches.
- Plan to provide permanent power to VV building.
- Plan to secure I building TAP.
- Electrical plan to De-Inventory crude.
- 2). Energize the following areas:
- C building (Old wash slab, remove generator)
- Marketing loading dock lighting
- T building
- 3) Disconnect high voltage to hot zone per the approved plan.
- **Prioritization changes to plans need to be approved by Operations Section Chief**

Plans to be approved through normal refinery MOC process, Operations Section Chief and Incident Investigation Team (Shane Strang)

Communications		
Name / Function	Contact Details	
ERT Channel	8	
Channel 1 Talk Around	11	
Primary	1	
Secondary	2	
Radio	3 to 7	

ICS 204 - Assignment List		Updated 05/07/2018 17:10 UTC -6:00		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 17 of 81	© TRG	

ICS 204 - Assignment List	Task Force: Energy Restoration Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Special Environmental Considerations

Considerations of potential hydrocarbon release should be made prior to energizing hydrocarbon containing equipment or their control system in order to minimize the release of hydrocarbons.

Prior to energizing any CEM buildings all building analyzers and sampling equipment shall be turned off.

Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.

Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring. Any liquid hydrocarbon release shall be cleaned up immediately.

Special Site-Specific Safety Considerations

If in Hot Zone, must follow Hot Zone Procedures. All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further guidance.

A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.

Hazard assessment must be done to plan safe work.

Follow Refinery Electrical Safety and Lockout Tagout programs.

Be aware of your sorroundings. There may be large equipment and overhead work in your area.

Be cognizant of downed power lines, overhead hazards and potential for unintentional energization of electrical equipment.

Wear PPE appropriate to the potential electrical energy.

Emergency Alarm system will signal need to evacuate from the site.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or a Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

Additional Information

ICS 204 - Assignment List		Updated 05/07/2018 17:10 UTC -6:00		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 18 of 81	© TRG	

ICS 204 - Assignment List	Task Force: Control System Task Force		
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]		

Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Mechanical Group Supervisor	Rikkola, Ken	Husky Energy Inc.	218-343-9538	
Control System Task Force Leader	Johnson, Joe	Husky Energy Inc.	651-307-7833	

Area Of Operation	Resource Kind	Description	Quantity	Size
Control System Task Force	Manpower: Responder	Electricians	1	
Control System Task Force	Manpower: Responder	Manpower: Responder	5	

Assignments

Order fiber cable to connect old crude control room to "T" building – to support DCS connection when it is available.

Develop plan to restore emergency response capabilities for BOHO DeltaV DCS control.

Request permision from Investigation Task Force to utilize the DeltaV control system.

Special Environmental Considerations

Ensure that HF Air Monitoring is intergrated with GHD program.

Special Site-Specific Safety Considerations

If in Hot Zone, must follow Hot Zone Procedures including Bunker Gear, ERT escort, 4-Gas Monitor and sign in at ERT Response Center.

In Alky Unit, fixed HF air monitors do not currently work. Rely on personal HF monitors and area monitors for determination of HF within the air.

In Alky Unit, fixed water cannons are not operational. If there is a potential for a leak of HF Acid, stage water nozzles and verify antiquate coverage of water spray to mitigate a release.

If in Warm or Cold Zone, refinery PPE must be worn except where HF Akly Gear is required and that must be worn.

Hazard assessment must be done to plan safe work.

Be cognizant of the hazards of the products being handled including hydrofluoric acid and other hazards of the Alkylation Unit.

Emergency Alarm system will signal need to evacuate from the site.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

Additional Information

ICS 204 - Assignment List		Updated 05/10/2018 14:17 UTC -6:0		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 19 of 81	© TRG	

ICS 204 - Assignment Lis	t	Task Fo	orce: Control System Task Force
Incident Name: 2018 Superior R	efinery Fire	Period: Period 10 [05/19	/2018 06:00 - 05/22/2018 06:00]
ICS 204 - Assignment List			Updated 05/10/2018 14:17 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 20 of 81	© TRG

ICS 204 - Assignment List	Task Force: Asset Stabilization Task Force		
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]		

Operations Personnel					
Position	Name	Affiliation	Contact Number(s)	Work Shift	
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161		
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594		
Mechanical Group Supervisor	Rikkola, Ken	Husky Energy Inc.	218-343-9538		
Asset Stabilization Task Force Leader	Rikkola, Ken	Husky Energy Inc.	218-343-9538		

Area Of Operation	Resource Kind	Description	Quantity	Size
Asset Stabilization Task Force	Manpower: Responder	Manpower: Responder	16	
Asset Stabilization Task Force	Manpower: Operator	Manpower: Operator	2	
Asset Stabilization Task Force	Equipment: Heavy	Crane	2	

Assignments

Primary asset of concern for asset stabilization: Stripper tower (15G-V10)

Actions for stripper tower stabilization:

- Asphalt and Asbestos removal
- 3D scan

Continue identifying other assets of concern including building integrity issues.

Communications			
Name / Function	Contact Details		
ERT Channel	8		
Channel 1 Talk Around	11		
Primary	1		
Secondary	2		
Radio	3 to 7		

Special Environmental Considerations

Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.

Once stabilization events commence, notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring. Actions shall be taken to minimize any release of hydrocarbons to the environment.

Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring.

ICS 204 - Assignment List		Updated 05/10/2018 14:46 UTC -6:00		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 21 of 81	© TRG	

ICS 204 - Assignment List	Task Force: Asset Stabilization Task Force		
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]		

Special Site-Specific Safety Considerations

All contractors must be preapproved by Refinery Safety Department.

If in Hot Zone, must follow Hot Zone Procedures. All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further guidance.

A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.

Hazard assessment must be done to plan safe work.

Be cognizant of the hazards of the product in the vessel, fire and similar hazards.

Emergency Alarm system will signal need to evacuate from the site.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

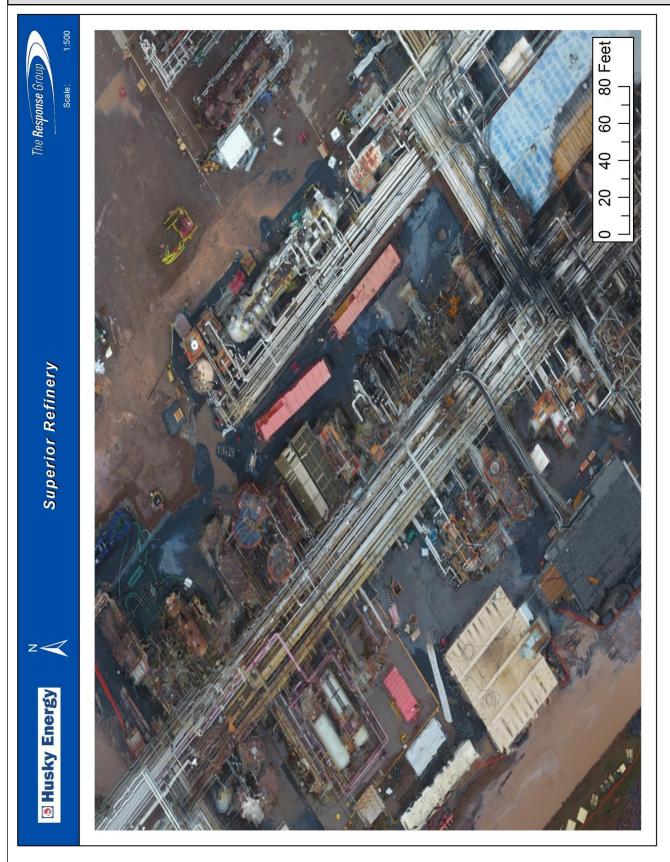
Additional Information

ICS 204 - Assignment List		Updated 05/10/2018 14:46 UTC -6:00		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 22 of 81	© TRG	

ICS 204 - Assignment List Task Force: Asset Stabilization Task Force

Incident Name: 2018 Superior Refinery Fire Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

20180510_MapforCrane.jpg



ICS 204 - Assignment List		Updated 05/10/2018 14:46 UTC -6:00		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 23 of 81	© TRG	

ICS 204 - Assignment List	Task Force: Asphalt Removal Task Force		
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]		

Operations Personnel					
Position	Name	Affiliation	Contact Number(s)	Work Shift	
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161		
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594		
Mechanical Group Supervisor	Rikkola, Ken	Husky Energy Inc.	218-343-9538		
Asphalt Removal Task Force Leader	Stokes, Dave	Stack Brothers Mechanical	218-221-6427		
Asphalt Removal Task Force Leader	Linge, Jeremy	Husky Energy Inc.			

Area Of Operation	Resource Kind	Description	Quantity	Size	
Asphalt Removal Task Force	Manpower: Responder	Manpower: Responder	8		
Asphalt Removal Task Force	Front-end loader	Front-end loader	2		
Asphalt Removal Task Force	Manpower: Operator	Manpower: Operator	4		
Asphalt Removal Task Force	Roll Off Box	Roll Off Box	12		
Asphalt Removal Task Force	Vehicle	Roll Off Truck	2		
Asphalt Removal Task Force	Trackhoe	Trackhoe	1		
Asphalt Removal Task Force	Backhoe	Backhoe	1		
Asphalt Removal Task Force	Skid Steer	Skid Steer	1		
Asphalt Removal Task Force	Equipment: Heavy	Font-end Loader	2		

Assignments

Remove asphalt in priority areas as directed by operations and approved by Baker Risk

Asphalt removal will be done by certified asbestos workers.

Asbestos workers will implement "Asbestos Remediation Plan 2018 Superior Refinery Fire" that GHD produced

Aerial mapping of progress is completed twice weekly. Updated maps will be provided by OSC.

Prioritize the removal areas on a map per operations

Baker Risk needed for documentation and storage of evidence found

Special Environmental Considerations

Follow existing waste management plan and approved by applicable agencies. Actions shall be taken to minimize any release of hydrocarbons to the environment. Any hydrocarbon release shall be cleaned up immediately and disposed of properly. Notification of any hydrocarbon release shall be made to the GHD air monitoring group immediately for consideration in air monitoring.

ICS 204 - Assignment List		Updated 05/08/2018 15:40 UTC -6:00		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 24 of 81	© TRG	

ICS 204 - Assignment List	Task Force: Asphalt Removal Task Force		
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]		

Special Site-Specific Safety Considerations

If in Hot Zone, must follow Hot Zone Procedures. All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. In addition, Tingley or other chemical boots and leather gloves must be worn when there is a potential for contact with asphalt. Refer to Permit writers for further guidance.

A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.

Hazard assessment must be done to plan safe work.

Any disturbance of Pressumed Asbestos Contatining Materials must be done by asbestos licensed personnel.

Be cognizant of the hazards of the areas that you are working in. Certain areas, such as the HF Unit, may require additional PPE.

Emergency Alarm system will signal need to evacuate from the site.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

Additional Information

If impacted wildlife are observed.	Do not approach or attemp	it to capture. Please conta	act Husky Hill Avenue (guard shack at 715-
398-8220 or 221				

ICS 204 - Assignment List			Updated 05/08/2018 15:40 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 25 of 81	© TRG

ICS 204 - Assignment List	Task Force: Inspection Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Operations Personnel					
Position	Name	Affiliation	Contact Number(s)	Work Shift	
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161		
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594		
Mechanical Group Supervisor	Rikkola, Ken	Husky Energy Inc.	218-343-9538		
Inspection Task Force Leader	Debevc, Ed	Husky Energy Inc.	250-961-2357		
Inspection Task Force Leader	Johnston, Gary	Husky Energy Inc.	715-817-1131		

Area Of Operation	Resource Kind	Description	Quantity	Size
Inspection Task Force	Manpower: Responder	Manpower: Responder	10	

Assignments

1) Primary focus on the Crude Vac unit addressing the following areas.

Engineering Drawings

- Assemble engineering package
- Assemble database and baseline information
- 2) Work ahead of De-Inventory assigments to conduct visual assessment of additional equipment outside the known event areas.
- 3) Perform mechanical integrity analysis on structures identified by the Investigation Task Force.
- **Plan to be approved by Safety Officer, Operations Section Chief, Investigation Task Force Leader, Planning Section Chief and Incident Commander**

Special Environmental Considerations

Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.

Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring.

ICS 204 - Assignment List			Updated 05/10/2018 14:17 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 26 of 81	© TRG

ICS 204 - Assignment List	Task Force: Inspection Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Special Site-Specific Safety Considerations

If in Hot Zone, must follow Hot Zone Procedures including Bunker Gear, ERT escort, 4-Gas Monitor and sign in at ERT Response Center.

All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further guidance.

A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.

Hazard assessment must be done to plan safe work.

Be cognizant of the hazards of the product in reactor as well as nitrogen, fire and similar hazards.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

Emergency Alarm system will signal need to evacuate from the site. Secondary alarm is via the Channel 1 on plant radio.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be aware of the potential for severe weather. The Shift Foreman will make an announcement if there are special precautions or if there is a need to take shelter.

Additional Information

If i	impacted	wildlife	are observed	l. Do not approach	or attempt to	capture.	Please contact	t Husky Hil	I Avenue g	guard shack	at 715-
39	98-8220 d	or 221									

ICS 204 - Assignment List			Updated 05/10/2018 14:17 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 27 of 81	© TRG

ICS 204 - Assignment ListTask Force: ERT Task ForceIncident Name: 2018 Superior Refinery FirePeriod: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Operations Personnel						
Position	Name	Affiliation	Contact Number(s)	Work Shift		
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161			
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594			
Emergency Response Group Supervisor	Quimby, Jerome	Husky Energy Inc.	218-428-5190			
ERT Task Force Leader	Hunker, Johnny	Husky Energy Inc.				
ERT Task Force Leader	VanHornweder, Brian	Husky Energy Inc.	218-428-5210			

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
ERT Task Force	Fire Fighting Foam	Fire Fighting Foam	1500	
ERT Task Force	Tanker Truck	Tanker Truck	1	
ERT Task Force	Foam pumper	Foam pumper	1	
ERT Task Force	Manpower: Responder	Manpower: Responder	20	

Assignments

Maintain 24hr readiness to respond to any incidents on-site. Follow guidelines as defined in existing Superior Refinery Emergency Response Plan.

Deploy and maintain fire response to support de-inventoring activities.

See attached map for warm and hot zone locations.

Equipment manager for ERT will ensure serviceability and organization of ERT building and equipment

Communications			
Name / Function	Contact Details		
ERT Channel	8		
Channel 1 Talk Around	11		
Primary	1		
Secondary	2		
Radio	3 to 7		

Special Environmental Considerations

Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.

Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring.

ICS 204 - Assignment List		Updated 05/10/2018 14:47 UTC -6:		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 28 of 81	© TRG	

ICS 204 - Assignment List	Task Force: ERT Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]
Special Site-Spe	ecific Safety Considerations
If in Hot Zone, follow Hot Zone Procedures.	

All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further auidance.

A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.

Emergency Alarm system will signal need to evacuate from the site.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin licensed asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

Additional Information

ICS 204 - Assignment List			Updated 05/10/2018 14:47 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 29 of 81	© TRG

ICS 204 - Assignment List

Incident Name: 2018 Superior Refinery Fire

Task Force: ERT Task Force

Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

20180510_NoEntryZone.jpg



ICS 204 - Assignment List			Updated 05/10/2018 14:47 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 30 of 81	© TRG

ICS 204 - Assignment List	Task Force: Fire Pump Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Emergency Response Group Supervisor	Quimby, Jerome	Husky Energy Inc.	218-428-5190	
Fire Pump Task Force Leader	Peterson, John	Husky Energy Inc.	218-428-6160	

Area Of Operation	Resource Kind	Description	Quantity	Size
Fire Pump Task Force	Manpower: Responder	Manpower: Responder	3	
Fire Pump Task Force	Pumps	Fire Pumps	3	

Assignments

Maintain operational readiness of fire water pumps. Report any issues to the Emergency Response Group Supervisor.

Communications		
Contact Details		
8		
11		
1		
2		
3 to 7		

Special Environmental Considerations

Release of diesel fuel at the diesel fire water pumps shall be properly cleaned up immediately for proper disposal. Actions shall be taken to minimize any release of hydrocarbons to the environment.

Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring.

Special Site-Specific Safety Considerations

Refinery require FR clothing, Hard Hat, Safety Glasses and safety boots.

If in Diesel Pump building and pumps are running, hearing protection must be worn.

If working along the pond perimeter, a life jacket must be worn.

Emergency Alarm system will signal need to evacuate from the site.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

Additional Information

ICS 204 - Assignment List		Updated 05/07/2018 17:15 UTC -6:0		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 31 of 81	© TRG	

ICS 204 - Assignment List	Task Force: Air Monitoring Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Environmental Monitoring Group Supervisor	Beattie, Dave	Husky Energy Inc.	218-348-9051	
Air Monitoring Task Force Leader	Armes, Will	GHD	519-497-8054	

Resources	Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Air Monitoring Task Force	Equipment: Air Monitoring	AreaRaes	32	
Air Monitoring Task Force	Equipment: Air Monitoring	MultiRaes	10	1
Air Monitoring Task Force	Equipment: Air Monitoring	UltraRaes	10	
Air Monitoring Task Force	Equipment: Air Monitoring	Dust Track	10	
Air Monitoring Task Force	Manpower: Operator	Air Monitoring Supervisors	2	
Air Monitoring Task Force	Manpower: Responder	Industrial Hygienist	25	
Air Monitoring Task Force	Manpower: Responder	Asbestos Contractors	1	

Assignments

- 1. Continue to maintain a fixed perimeter air monitoring system that has been deployed to the area currently delineated as the hot zone. This monitoring will be conducted in accordance with the Site action levels described in the Air Monitoring Plan
- 2. Continue to maintain a fixed perimeter air monitoring system that has deployed to the perimeter of the refinery process area at or near the fenceline. This monitoring will be used to provide information regarding air quality in close proximity to potential sources of emissions of COI during the cleanup and recovery phases of the project.
- 3. Mobile community monitoring teams will continue to conduct monitoring in the area outside the facility, with a focus on downwind monitoring, while the cleanup and recovery phases of the project are ongoing.
- 4. Mobile on site teams will continue to conduct monitoring during De-Inventory activities.

Communications		
Name / Function	Contact Details	
ERT Channel	8	
Channel 1 Talk Around	11	
Primary	1	
Secondary	2	
Radio	3 to 7	

Special Environmental Considerations

Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.

Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring.

ICS 204 - Assignment List			Updated 05/10/2018 11:38 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 32 of 81	© TRG

ICS 204 - Assignment List	Task Force: Air Monitoring Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Special Site-Specific Safety Considerations

If in Hot Zone, must follow Hot Zone Procedures. All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further guidance.

A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.

If working along the perimeter fence or other Husky property outside of refinery, contact security guards at 715-398-8220 to make them aware of your presence. Otherwise, the police will be called.

When working along the refinery perimeter, be cognizant of slip, trip and fall hazards.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

Emergency Alarm system will signal need to evacuate from the site.

When leaving vegetated areas outside of refinery, visually inspect clothing and skin for ticks.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

Additional Information

If ir	mpacted wildlife	are observed.	Do not approach	or attempt to capture	:. Please contact i	Husky Hill Avenu	ue guard shack	at 715-
39	8-8220 or 221							

ICS 204 - Assignment List	Updated 05/10/2018 11:38 UTC		Updated 05/10/2018 11:38 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 33 of 81	© TRG

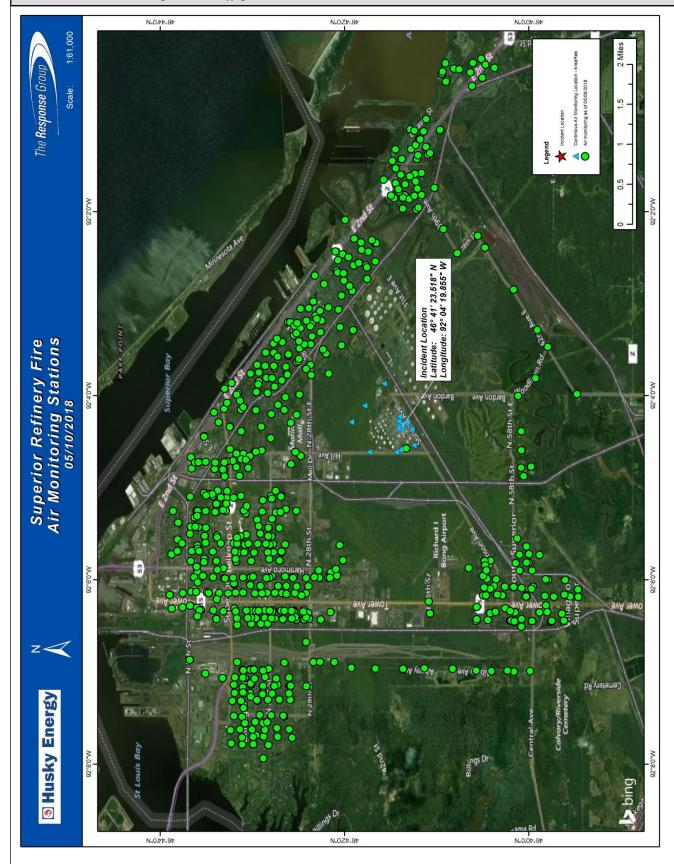
ICS 204 - Assignment List

Task Force: Air Monitoring Task Force

Incident Name: 2018 Superior Refinery Fire

Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

20180510_AirMonitoring Stations.jpg



ICS 204 - Assignment List			Updated 05/10/2018 11:38 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 34 of 81	© TRG

ICS 204 - Assignment List	Task Force: Water Sampling Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Environmental Monitoring Group Supervisor	Beattie, Dave	Husky Energy Inc.	218-348-9051	
Water Sampling Task Force Leader	Turner, Matt	Husky Energy Inc.	715-969-4873	

Area Of Operation	Resource Kind	Description	Quantity	Size
Water Sampling Task Force		Long-Handled Surface water Sampler	4	
Water Sampling Task Force	Miscellaneous	Lab Sample Containers	24	
Water Sampling Task Force	Miscellaneous	Water-Proof Shipping Containers	4	
Water Sampling Task Force	Manpower: Responder	Water Sampling Techs	3	

Assignments

Water sampling to be conducted once per week as directed by the Water Sampling Task Force Leader. When sampling occurs, the following will take place:

- 1. Continue to collect water samples at designated sites utilizing appropiate water sampling equipment and techniques.
- 2. Sample at Four (4) pre-determined locations off site
- 3. Package and arrange water samples for delivery to selected labs for analysis.
- 4. Report findings to EUL and GHD.
- 5. Conduct on-site sampling for PFAS as needed.

Communications		
Name / Function	Contact Details	
ERT Channel	8	
Channel 1 Talk Around	11	
Primary	1	
Secondary	2	
Radio	3 to 7	

Special Environmental Considerations

Follow existing water sampling plan developed by GHD and approved by applicable agencies. All precautions should be taken to ensure proper sampling and handling. Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.

Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring. Any liquid hydrocarbon release shall be cleaned up immediately.

ICS 204 - Assignment List	204 - Assignment List Updated 05/10/2018 11:5		Updated 05/10/2018 11:39 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 35 of 81	© TRG

Incident Name: 2018 Superior Refinery Fire Special Site-Specific Safety Considerations Please refer to GHD Health and Safety Plan for water sampling. Emergency Alarm system will signal need to evacuate from the site. Use flashlights, vehicle lights and other lighting during nighttime activities. If warrented, request light plants and other lighting. Life jackets are required when working over water. Life jackets are available in the Warehouse. For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and othe materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personel prior to their work. Safe work permit reinclude request for this determination. Any concerns found as part of this assessment must be addressed prior to any done. Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plas system if there are special precautions or if there is a need to take shelter. Additional Information If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard sha 398-8220 or 221	/2018 06:00
Please refer to GHD Health and Safety Plan for water sampling. Emergency Alarm system will signal need to evacuate from the site. Use flashlights, vehicle lights and other lighting during nighttime activities. If warrented, request ligth plants and other lighting. Life jackets are required when working over water. Life jackets are available in the Warehouse. For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personel prior to their work. Safe work permit recinclude request for this determination. Any concerns found as part of this assessment must be addressed prior to any done. Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plants system if there are special precautions or if there is a need to take shelter. Additional Information If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard sha	
Emergency Alarm system will signal need to evacuate from the site. Use flashlights, vehicle lights and other lighting during nighttime activities. If warrented, request light plants and other lighting. Life jackets are required when working over water. Life jackets are available in the Warehouse. For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personel prior to their work. Safe work permit regional request for this determination. Any concerns found as part of this assessment must be addressed prior to any done. Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plants system if there are special precautions or if there is a need to take shelter. **Additional Information** If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard share.	
Use flashlights, vehicle lights and other lighting during nighttime activities. If warrented, request light plants and other lighting. Life jackets are required when working over water. Life jackets are available in the Warehouse. For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personel prior to their work. Safe work permit recinclude request for this determination. Any concerns found as part of this assessment must be addressed prior to any done. Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plants as the potential precautions or if there is a need to take shelter. Additional Information If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard shall.	
Life jackets are required when working over water. Life jackets are available in the Warehouse. For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and othe materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personel prior to their work. Safe work permit recinclude request for this determination. Any concerns found as part of this assessment must be addressed prior to any done. Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plansystem if there are special precautions or if there is a need to take shelter. **Additional Information** If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard share.	
For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and othe materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personel prior to their work. Safe work permit recinclude request for this determination. Any concerns found as part of this assessment must be addressed prior to any done. Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the playstem if there are special precautions or if there is a need to take shelter. Additional Information If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard share an anouncement on the playstem in the playstem is the properties of the potential precautions or if there is a need to take shelter.	larger
materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personel prior to their work. Safe work permit recinclude request for this determination. Any concerns found as part of this assessment must be addressed prior to any done. Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plansystem if there are special precautions or if there is a need to take shelter. Additional Information If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard share	
Additional Information If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard sha	quest must work being
If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard sha	

ICS 204 - Assignment List		Updated 05/10/2018 11:39 UTC -6:00	
INCIDENT ACTION PLAN SOFTWARE $^{\text{\tiny{TM}}}$	Printed 05/18/2018 15:34 UTC -6:00	Page 36 of 81	© TRG

ICS 204 - Assignment List

Task Force: Water Sampling Task Force

Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Incident Name: 2018 Superior Refinery Fire

20180510_watersamplingsites_NoDate.jpg



ICS 204 - Assignment List		Updated 05/10/2018 11:39 UTC -6:0		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 37 of 81	© TRG	

ICS 204 - Assignment List	Task Force: IH Monitoring Task Force			
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]			
Operations Personnel				

Operations Personnel					
Position	Name	Affiliation	Contact Number(s)	Work Shift	
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161		
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594		
Environmental Monitoring Group Supervisor	Beattie, Dave	Husky Energy Inc.	218-348-9051		
IH Monitoring Task Force Supervisor	Thiel, Jason	Husky Energy Inc.	419-296-6310		

Area Of Operation	Resource Kind	Description	Quantity	Size
IH Monitoring Task Force	Manpower: Responder	Industrial Hygienist	2	
IH Monitoring Task Force	Pumps	Sampling Pumps	5	
IH Monitoring Task Force	Manpower: Responder	Asbestos Contractors	12	

Assignments

Continue asbestos monitoring on-site as directed by approved Asbestos Plan

Personal monitoring for air contaminants. (VOC, Asbestos)

Provide asbestos hazard support to ERT and on-site operations within the hot zone or other areas where insulation is damaged.

Communications				
Name / Function	Contact Details			
ERT Channel	8			
Channel 1 Talk Around	11			
Primary	1			
Secondary	2			
Radio	3 to 7			

Special Environmental Considerations

Debris shall be assumed to be asbestos containing unless testing or other means of identification confirms otherwise. Actions shall be taken to minimize any release of presumed asbestos containing materials (PACM) to the environment. Any PACM disturbance/release/exposure shall be mitigated or cleaned up immediately and disposed of properly.

Notification of any PACM activities shall be made to the GHD IH air monitoring group immediately for evaluation, mitigation and/

Notification of any PACM activites shall be made to the GHD IH air monitoring group immediately for evaluation, mitigation and/or exclusion.

ICS 204 - Assignment List			Updated 05/07/2018 17:18 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 38 of 81	© TRG

ICS 204 - Assignment List	Task Force: IH Monitoring Task Force		
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]		

Special Site-Specific Safety Considerations

If in Hot Zone, must follow Hot Zone Procedures. All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further guidance.

A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.

If working along the perimeter fence or other Husky property outside of refinery, contact security guards at 715-398-8220 to make them aware of your presence. Otherwise, the police will be called.

When in the refinery, be cognizant of hazards associated with a fire zone.

When working along the refinery perimeter, be cognizant of slip, trip and fall hazards.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

Emergency Alarm system will signal need to evacuate from the site.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

Additional Information

If i	impacted	wildlife	are observed	l. Do not approach	or attempt to	capture.	Please contact	t Husky Hil	I Avenue g	guard shack	at 715-
39	98-8220 d	or 221									

ICS 204 - Assignment List		Updated 05/07/2018 17:18 UTC -6:00		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 39 of 81	© TRG	

ICS 204 - Assignment List	Task Force: Environmental Support Task Force		
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]		

Operations Personnel					
Position	Name	Affiliation	Contact Number(s)	Work Shift	
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161		
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594		
Environmental Monitoring Group Supervisor	Beattie, Dave	Husky Energy Inc.	218-348-9051		
Environmental Support Task Force Leader	Turner, Matt	Husky Energy Inc.	715-969-4873		

Resources	Required
-----------	----------

Area Of Operation	Resource Kind	Description	Quantity	Size
Environmental Support Task Force	Manpower: Responder	Manpower: Responder	3	
Environmental Support Task Force	Boom	Boom	400	
Environmental Support Task Force	Sorbent: Boom	Sorbent: Boom	400	
Environmental Support Task Force	Vehicle	Vehicle	4	
Environmental Support Task Force	Vacuum Truck	Vacuum Truck	1	
Environmental Support Task Force	Manpower: Operator	Vac Truck Operators	2	
Environmental Support Task Force	Manpower: Operator	Operator	1	
Environmental Support Task Force	Excavator	Mini Excavator	1	

Assignments

Boom Maintenance:

The team will travel to the current boom sites along Newton Creek to assess the condition of the boom. The morning crew will replace all absorbent boom that appears to have petroleum contamination. Any containment boom that is compromised will be put into 55 gallon steel drums that are labeled with a non-hazardous waste label filled in with "Oily Absorbent Booms". Full drums will be brought to the 90 day storage building. Pictures of each boom site should be taken both before and after any upkeep for documentation. Report to acting shift foreman for any additional work he may have for them.

Respond to any immediate actions, environmental concerns. (ie: Cleanup of contaminants at boom locations, address contamination issues at stinson avenue) as directed by Environmental Support Task Force Leader

Communications		
Name / Function	Contact Details	
Primary	1	
Secondary	2	
Radio	3 to 7	
ERT Channel	8	
Channel 1 Talk Around	11	
Channel 2 Talk Around	12	

Special Equipment / Supplies Needed for Assignment

Steel Drums, wheelbarrow

Special Environmental Considerations

Presence of sheen/oil at any location shall be relayed to the boom maintenance task force leader. Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.

Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring.

ICS 204 - Assignment List		Prepared By Planning, Updated 05/07/2018 17:20 UTC -6:00 PP		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 40 of 81	© TRG	

ICS 204 - Assignment List	Task Force: Environmental Support Task Force	
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]	

Special Site-Specific Safety Considerations

Be aware of slipping hazards on sides of banks of creek and other areas.

If in Hot Zone, must follow Hot Zone Procedures. All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further guidance.

A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.

When work involves roadways, utilize Hi Viz vest.

Wear a life jacket when working in areas of deeper water. Consider slipping hazards and what might happen if you were to slip into creek while deploying boom or into pond while sampling.

Be cognizant of the products being handled.

Utilize proper lifting techniques and utilize mechanical lifting techniques on heavy boom or other objects.

Inspect for ticks when traveling in grassy or wooded areas.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Additional Information

If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard shack at 715-398-8220 or 221

ICS 204 - Assignment List		Prepared By Planning, Updated 05/07/2018 17:20 UTC -6:00	
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 41 of 81	© TRG

Asphalt Recovery and Boom Management Plan

Crew: 2 shifts, 2 workers each shift. Workers must have current HAZWOPER Training

Frequency: Twice per day (once per shift) for a week

Materials: Containment Boom (100ft)

Absorbent Boom (100ft)

55 gallon steel drums (4)

Non-Hazardous Waste Labels (4)

Shovels (2)

Wheelbarrow (1)

Pickup Truck (1)

Boom Location Map (1)

High Visibility Vest for Worker (2)

Objective:

Stinson Ave Ditch Asphalt Recovery: Teams of two with current HAZWOPER training will travel along the northern side of Stinson Ave and collect any asphalt present. Asphalt may appear in "globs" with sizes ranging from a softball to a pea. Collected asphalt can be placed in a wheelbarrow while traversing Stinson Ave and ultimately transferred into 55 gallon steel drums. The drums are to be labeled with a non-hazardous waste sticker that is filled in with "Asphalt + Soil". Under no circumstances should any other material be collected as to not interfere with the incident investigation. Full drums will be brought to the 90 day storage building and properly stored. Pictures of gross asphalt contamination should be taken for documentation purposes.

Newton Creek Boom Maintenance: After conducting the asphalt recovery portion of the plan, the same team of two will travel to the current boom sites along Newton Creek to assess the condition of the booms. The morning crew will replace all the absorbent boom in the creek. The afternoon crew will replace any absorbent boom that appears to have petroleum contamination. Any containment boom that is compromised should be replaced or adjusted to ensure functionality. Spent absorbent booms will be put into 55 gallon steel drums that are labeled with a non-hazardous waste label that is filled in with "Oily Absorbent Booms". Full drums will be brought to the 90 day storage building and properly stored. Pictures of each boom site should be taken both before and after any upkeep for documentation purposes.

After Both Tasks Are Complete: Once the tasks have been completed, the team will then contact the acting shift foreman for any additional work he may have for them.

ICS 204 - Assignment List

Incident Name: 2018 Superior Refinery Fire

Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Operations Personnel

Position

Name
Affiliation
Contact Number(s)
Work Shift

Operations Section Chief Fredman, Peter
Husky Energy Inc.

320-288-6161

Operations reisonner				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Environmental Monitoring Group Supervisor	Beattie, Dave	Husky Energy Inc.	218-348-9051	
Wildlife Task Force Leader	Battaglia, Chris	Focus Wildlife	310-386-5965	

Resources Required

Area Of Operation	Resource Kind	Description	Quantity	Size
Wildlife Task Force	Manpower: Responder	Manpower: Responder	3	

Assignments

Minimize access to asphalt tank farm by installing fencing (chain link & silt fence), continue to clean up and maintain penant & mylar flagging around all of the asphalt and 6 oil containment area.

Implement canadian goose nest and egg depredation as defined in the wildlife plan.

Implement active wildlife hazing as appropriate.

Continuous active monitoring of wildlife on-site and off-site around the facility

All operations should be in accordance with the approved Wildlife Plan.

Active wildlife rehabilitation.

Special Equipment / Supplies Needed for Assignment

100yd sand

Pre-sectioned mobile fencing

PFD

Flagging material

Special Environmental Considerations

Follow existing wildlife management plan and approved by applicable agencies. Actions shall be taken to minimize any impact to wildlife. Notification to the Wildlife Group and Environmenal Unit Leader of any identified impacts to wildlife (terestrial, aquatic, avian). Additionally, notification of any hydrocarbon release shall be made to the GHD air monitoring group immediately for consideration in air monitoring.

ICS 204 - Assignment List			Updated 05/07/2018 17:22 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 43 of 81	© TRG

ICS 204 - Assignment List	Task Force: Wildlife Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

Special Site-Specific Safety Considerations

If in Hot Zone, must follow Hot Zone Procedures. All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further guidance.

Be cognizant of the hazards of the products being handled.

If working along the permiter fence or other Husky property outside of refinery, contact security guards at 715-398-8220 to make them aware of your presence. Otherwise, the police will be called.

When working along the refinery perimeter, be cognizant of slip, trip and fall hazards.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

Emergency Alarm system will signal need to evacuate from the site.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be sure to wear a life jacket when working over water. Life jackets are available in the Warehouse.

Inspect for ticks when traveling in grassy or wooded areas.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

Additional Information

If impacted wildlife a	are observed. D	o not approach	or attempt to capture.	Please contact H	lusky Hill Avenue	guard shack at	715-
398-8220 or 221							

ICS 204 - Assignment List			Updated 05/07/2018 17:22 UTC -6:00
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 44 of 81	© TRG

ICS 204 - Assignment List	Task Force: Waste Management Task Force	
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]	

Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Environmental Monitoring Group Supervisor	Beattie, Dave	Husky Energy Inc.	218-348-9051	
Waste Management Task Force Leader	Turner, Matt	Husky Energy Inc.	715-969-4873	

Area Of Operation	Resource Kind	Description	Quantity	Size
Waste Management Task Force	Manpower: Responder	Manpower: Responder	2	
Waste Management Task Force	Manpower: Operator	Operator	1	
Waste Management Task Force	Front-end loader	Front-end loader	1	

Assignments

Contingent on Baker Risk clearance on a per site basis:

Dispose of asphalt removed by the Asphalt Removal Task Force.

Movement of disposal equipment should be directed by Asphalt Removal Task Force Leader

All operations to follow the approved Asbestos and Waste Management Plans.

Special Environmental Considerations

Follow existing waste management plan and approved by applicable agencies. Actions shall be taken to minimize any release of hydrocarbons to the environment. Any hydrocarbon release shall be cleaned up immediately and disposed of properly. Notification of any hydrocarbon release shall be made to the GHD air monitoring group immediately for consideration in air monitoring.

Special Site-Specific Safety Considerations

If in Hot Zone, must follow Hot Zone Procedures. All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further guidance.

A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.

Hazard assessment must be done to plan safe work.

Be cognizant of the hazards of the products being handled.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

Emergency Alarm system will signal need to evacuate from the site.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

ICS 204 - Assignment List		Updated 05/07/2018 17:23 UTC -6:0		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 45 of 81	© TRG	

CS 204 - Assignment List Task Force: Waste Management Task Force					
Incident Name: 2018 Superior Refinery	[,] Fire	Period: Period 10 [05/19	/2018 06:00 - 05/22/2018 06:00]		
Additional Information					
If impacted wildlife are observed. Do no 398-8220 or 221	ot approach or attempt to	capture. Please contact Husky H	ill Avenue guard shack at 715-		
ICS 204 - Assignment List			Updated 05/07/2018 17:23 UTC -6:00		
INCIDENT ACTION PLAN SOFTWARE™ Printe	ed 05/18/2018 15:34 UTC -6:00	Page 46 of 81	© TRG		

ICS 204 - Assignment List	Task Force: Security Task Forc		
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]		

Operations Personnel				
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Security Task Force Leader	Brager, Lynn	Securitas	715-398-8220	

Area Of Operation	Resource Kind	Description	Quantity	Size
Security Task Force	Manpower: Responder	Manpower: Responder	18	
Security Task Force	Vehicle	Security Vehicle	4	

Assignments

Securitas to maintain 24hr security checkpoints at command post and control sites. Roving security to patrol between sites and to additional locations as requested.

Security to reference list of (Non-Husky) individuals approved for access.

Maintain temporary road blocks as directed by SOFR.

Communications		
Name / Function	Contact Details	
ERT Channel	8	
Channel 1 Talk Around	11	
Primary	1	
Secondary	2	
Radio	3 to 7	

Special Environmental Considerations

Immediate notification of a breach in the security of the site should be reported through the ICS system to mitigate the potential for a release of hydrocarbon to the environment. Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly. Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring. Any liquid hydrocarbon release shall be cleaned up immediately.

Special Site-Specific Safety Considerations

Any work on roadways requires a high visibility vest.

Be cognizant of vehicle traffic.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

Park Vehicle for roadblocks so that your on not in oncoming traffics lane. If someone is not paying attention, they could potentially not notice the roadblock. Keep truck flashing lights on if manning roadblocks.

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

ICS 204 - Assignment List		Updated 05/07/2018 17:28 UTC -6:00		
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 47 of 81	© TRG	

CS 204 - Assignment List Task Force: Security Task Force					
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]				
Additional Information					
	Information				
ICS 204 - Assignment List INCIDENT ACTION PLAN SOFTWARE™ Printed 05/18/2018 15:34 UTC -6:00	Updated 05/07/2018 17:28 UTC -6:00 Page 48 of 81 © TRG				

ICS 204 - Assignment List	Task Force: Decon Task Force
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]

		Operations Personnel		
Position	Name	Affiliation	Contact Number(s)	Work Shift
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161	
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594	
Decon Task Force Leader	Raiha, John	Husky Energy Inc.	218-390-4078	

Area Of Operation	Resource Kind	Description	Quantity	Size
Decon Task Force	Manpower: Responder	Manpower: Responder	4	
Decon Task Force	Miscellaneous	Decon Station	3	

Assignments

Conduct personnel decon for those exiting the hot zone per standard procedure outlined in Refinery ERP.

Decon stations are at;

- #1 Cooling tower
- West of flare
- ALKY (Specifically for work inside ALKY unit, decontamination for ALKY chemical gear)

Asbestos decontamination facilities will be provided by the Asbestos Task Force

Communications					
Name / Function	Contact Details				
ERT Channel	8				
Channel 1 Talk Around	11				
Primary	1				
Secondary	2				
Radio	3 to 7				

Special Environmental Considerations

Actions shall be taken to minimize any release of hydrocarbons to the environment. Any liquid hydrocarbon release shall be cleaned up immediately and disposed of properly.

Notification of any venting/release of vapor/liquid hydrocarbon shall be made to the GHD air monitoring group immediately for consideration in air monitoring. Any liquid hydrocarbon release shall be cleaned up immediately.

Special Site-Specific Safety Considerations

Decon personnel must wear chemical gear over FR coveralls.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

Four station boot Decon:

- 1. Simple Green and/or Orange Peel used to decon at Wash Station #1
- 2. Water rinse at station #2
- 3. Water rinse at station #3
- 4. Clean water tub at station #4

Be aware of the potential for severe weather. In the refinery, the Shift Foreman will make an anouncement on the plant radio system if there are special precautions or if there is a need to take shelter.

Additional Information

If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard shack at 715-398-8220 or 221

ICS 204 - Assignment List		Updated 05/07/2018 17:29 UTC -6:0				
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 49 of 81	© TRG			

ICS 204 - Assignment List	Other: Investigation Task Force				
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]				

Operations Personnel							
Position	Name	Affiliation	Contact Number(s)	Work Shift			
Operations Section Chief	Fredman, Peter	Husky Energy Inc.	320-288-6161				
Deputy Operations Section Chief	Schade, Kollin	Husky Energy Inc.	317-292-6594				
Investigation Task Force	Shtand, Wally	Husky Energy Inc.	403 512-1437				

Area Of Operation	Resource Kind	Description	Quantity	Size
Investigation Task Force	Manpower: Responder	Manpower: Responder	18	

Assignments

Continue the DCS data replication.

Continue to support evidence collection as prioritized by operations.

Baker Risk working on clearing asphalt removal on affected areas.

Develop plan for walk down.

Secure evidence storage:

- Confirm Location
- Validate installation option
- Choose installion vendor

Special Site-Specific Safety Considerations

If in Hot Zone, must follow Hot Zone Procedures. All other areas in the refinery require FR clothing, Hard Hat, Safety Glasses and safety boots. Refer to Permit writers for further guidance.

A Safe Work Permit is required for all work. Safe Work Permits can be obtained in the ERT Building.

Hazard assessment must be done to plan safe work.

Be cognizant of the hazards of the product in reactor as well as nitrogen, fire and similar hazards.

Use flashlights, vehicle lights and other lighting during nighttime activities. If warranted, request light plants and other larger lighting.

Emergency Alarm system will signal need to evacuate from the site. Secondary alarm is via the Channel 1 on plant radio.

For work in the hot zone or where damage has occurred to equipment, area must be assessed for asbestos and other hazardous materials by an Industrial Hygienist or Wisconsin Licensed Asbestos personnel prior to their work. Safe work permit request must include request for this determination. Any concerns found as part of this assessment must be addressed prior to any work being done.

Be aware of the potential for severe weather. The Shift Foreman will make an announcement if there are special precautions or if there is a need to take shelter.

Additional Information

If impacted wildlife are observed. Do not approach or attempt to capture. Please contact Husky Hill Avenue guard shack at 715-398-8220 or 221

ICS 204 - Assignment List		Updated 05/10/2018 14:17 UTC -6:00				
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 50 of 81	© TRG			

ICS 20)5 - Radio	Communication	ns						Version Name: Overall	
Incident Name: 2018 Superior Refinery Fire						Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00				
	ı			Radio	Channel Info	ormation	1	ı		
Ch #	Function	Channel Name/ Trunked Radio System Talkgroup	Assignment	Rx Freq N or W	Rx Tone/NAC	Tx Freq N or W	Tx Tone/NAC	Mode (A, D, or M)	Remarks	
1	Primary	Primary Radio Channel - Repeated								
2	Secondary	Secondary Radio Channel - Repeated							Secondary Repeated Channel Unit and Use s	
3 to 7	Radio	Radio to Radio Channels							Working Channel	
8	ERT Channel	Emergency Response Channel							Emergency Response Team Channel	
11	Channel 1 Talk Around	Channel 1 Talk Around							Use this channel in case of failure of repeated Channel 1	
12	Channel 2 Talk Around	Channel 2 Talk Around							Use this channel in case of failure of repeated Channel 2	
				Specia	al Radio Insti	ructions	•			
CS 205	i - Radio Co	mmunications					Prep	ared By Logis	tics, Updated 05/10/2018 13:14 UTC -6:00 Pt	
INCIDEN.	T ACTION PLAN	SOFTWARE™	Printed 05/18,	/2018 15:34 UTC -6:00		Page 51 o	of 81		© TRG	

ICS 205a - Communic	ations List				Version Name: Overa
Incident Name: 2018 S	uperior Refinery Fire			Period: Period 10 [05/19	/2018 06:00 - 05/22/2018 06:00
		Local C	communications	Information	
Name	Incident Assigned Position	Mobile Phone	Work Phone	Email	Notes
Goedde, Ed	Incident Commander	Non-Responsive			
Williams, Blake	Deputy Incident Commander		403 298-7443	blake.williams@huskyenergy.com	
Morrison, Dave	Agency Representative			morrison.david@epa.gov	
Obery, John	Legal Officer			john.obery@huskyenergy.com	
Syphard, Dan	Legal Officer (5/16)				
₋ott, Sean	Liaison Officer			Sean.Lott@huskyenergy.com	
O'Brien, John	Safety Officer			john.obrien@huskyenergy.com	
Bachhuber, Julie	HR Officer			julie.bachhuber@huskyenergy.com	
Westersund, Elizabeth	Public Information Officer			elizabeth.westersund@huskyenergy.com	
Fredman, Peter	Operations Section Chief			peter.fredman@huskyenergy.com	
Schade, Kollin	Deputy Operations Section Chief			kollin.schade@huskyenergy.com	
Miciak, Kevin	Planning Section Chief		306 820-4309	Kevin.Miciak@huskyenergy.com	
Choate, Jerry	Logistics Section Chief			jerry.choate@huskyenergy.com	
Shaah, Dax	Deputy Logistics Section Chief (May 8th)				
Bruckelmyer, Jason	Support Branch Director			jason.bruckelmyer@huskyenergy.com	
Black, Jason	Supply Unit Leader			jason.black@huskyenergy.com	
Verrill, John	Finance Section Chief				
Miciak, Kevin	Situation Unit Leader		306 820-4309	Kevin.Miciak@huskyenergy.com	
Buckley, Joe	Resource Unit Leader			jbuckley@responsegroupinc.com	
Broadbent, Evan	Resource Unit Leader (5/16)		281-880-5000	ebroadbent@responsegroupinc.com	
Гакаhashi, Yoshimi	Documentation Unit Leader			Yoshimi.takahashi@huskyenergy.com	
Beattie, Dave	Environmental Unit Leader			dave.beattie@huskyenergy.com	
Hill, Travis	GIS Specialist		281-880-5000	thill@responsegroupinc.com	
_ozada, Rene	IAP Support Specialist - PLN			rlozada@responsegroupinc.com	

Page 52 of 81

© TRG

Printed 05/18/2018 15:34 UTC -6:00

INCIDENT ACTION PLAN SOFTWARE™

ICS 206 - Medical Plan								Versi	on N	lame:	Overall	
Incident Name: 2018 Sup	perior Refine	ry Fire		Pe	riod: Peri	iod	10 [05/19)/201	8 06:00 - 0)5/22	2/2018	3 06:00]
			Medical	Aid Stations	3							
Name		Location	on				ramedic In Site	Pho	ne		Re	adio
Superior Refinery Medica Station	al Aid	-92.07	578 46.68889				x					
	Tra	ansport	tation (Ground a	nd/or Air Am	nbulance	Se	rvices)					
Ambulance Service		Location	on		Phone				Radio	,	Air	ALS
Global Air Ambulance		Superi	Tower Ave. or, WI 54888 202 46.68952		Ph1: (30)5) {	514-0942	2			X	
Gold Cross Ambulance S	Service	Duluth	V. Michigan St. , MN 475 46.74444		Ph1: (21	18) 6	628-9323	3				
		•	Н	ospitals	_				•			
					Air Trave	el	Groun		Trauma			Burn
Hospital	Location		Phone	Radio	Time		Travel T	\rightarrow	Center	_	lipad	Center
Essentia Health St. Mary's Hospital	3500 Towe Superior, M -92.10236 46.69748		Ph1: (715) 817 -7000		min		15 mi	n	II	X		
Essentia Health Duluth (Miller Dwan) Thermal or Chemical Burns	502 E 2nd Duluth, MN -92.09367 46.79244		Ph1: (218) 727- 8762		min		30 mi	n	II			x
St Luke's Duluth	915 East F Street Duluth, MN -92.08762 46.79718		Ph1: (218) 249- 5555		min		30 min		II X			
					min		min					
ICS 206 - Medical Plan			/2010 15 24 170 6 22				y Medical, ^l	Update T	ed 05/01/201	8 13:	08 UTC	
INCIDENT ACTION PLAN SOFT	vake '™ Pri	ntea U5/18,	/2018 15:34 UTC -6:00		Page 53 of	81		<u> </u>				© TRG

ICS 206 - Medical Plan	Version Name: Overall			
Incident Name: 2018 Superior Refinery Fire	Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]			

Special Medical Emergency Procedures

All injured employees who require more than in-house first aid, (i.e. lacerations requiring stitches, severe eye problems, severe strains/sprains or fractures) will be sent to the following medical facility:

Essentia St. Mary's Occupational Medicine Clinic 3500 Tower Ave Superior, WI (715) 817-7100

INJURIES INVOLVING EXPOSURE TO HYDROFLUORIC ACID

For minor exposures, the employee may be transported to Essentia St. Mary's Emergency Room in Superior, the Essentia Duluth Clinic Occupational Medicine Clinic or the Essentia St. Mary's Hospital Emergency Room in Duluth.

For all but minor exposures, the employee should be transported by ambulance to:

St. Mary's Hospital Emergency Room in Duluth:

407 East 3rd Street Duluth. MN

218-786-4000

INJURIES INVOLVING THERMAL OR CHEMICAL BURNS

For injuries involving all but minor thermal or chemical burns, employees should be transported by ambulance to: Essentia Miller-Dwan Burn Center 502 E. Second St., First Floor Duluth, MN (218) 786-2815

ICS 206 - Medical Plan		Prepared By Medical, Updated 05/01/2018 13:08 UTC -6				
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 54 of 81	© TRG			



STANDARD PRACTICE INSTRUCTIONS

SPI No. 25

Effective:11/08/17 _ Date Last Rev.: 02/02/12
Authorized: Refinery Manager
Authorized: Safety Manager

MEDICAL SERVICES/EMPLOYEE MEDICAL RECORDS/ WORKER'S COMPENSATION

SCOPE

This Standard Practice Instructions is to be considered Husky Superior company policy and minimum acceptable standards under normal conditions. Stricter requirements may apply under certain situations. If a problem is encountered, consultation with a safety professional should be considered before proceeding. Keep in mind that any alternative procedure must be at least as effective as these instructions in providing a safe workplace.

RATIONALE

This procedure was developed to inform all supervisors of the steps which need to be taken to insure that all injured employees are properly cared for, to explain access to employee medical records, and to explain the worker's compensation procedure.

APPLICATION

This policy describes the procedure that needs to be followed by all Husky Superior employees when it is necessary to obtain medical services, access medical records, or receive worker's compensation.

DEFINITIONS

Minor injury – Any injury that can be properly attended with in-house first aid. This type of injury might include strains/sprains, lacerations not requiring stitches, irrigating eyes or minor burns (either chemical or thermal).

Medical First-Aid Injuries – Any injury that can be properly attended by a physician with first-aid treatment.

Serious Injury – An injury that resulted in an OSHA recordable injury, lost-time injury (either lost workdays or restricted workdays) or fatality.

PROCEDURE FOR OBTAINING MEDICAL SERVICES

Note: On-Shift Emergency Response Team (ERT) Members should be called to assist on all, but very minor, medical incidents.

DAYTIME HOURS, MONDAY THROUGH FRIDAY

All injured employees who require more than in-house first aid, (i.e. lacerations requiring stitches, severe eye problems, severe strains/sprains or fractures) will be sent to the following medical facility:

Essentia SMDC Occupational Medicine Clinic Duluth Clinic 3rd Street Building 400 E. Third St. Duluth, MN (218) 786-3392

-or-

Essentia St. Mary's Occupational Medicine Clinic 3500 Tower Ave Superior, WI (715) 817-7100

- A. The immediate supervisor shall contact the Safety Department and advise of the injured employee.
- B. The Safety Manager or other member of the Safety Department will notify Essentia that an employee of Husky Superior is in route and give them a brief description of the employee's condition.
 - a. If requested by the Employee's Supervisor, the medical facility will also be advised that a drug screen and breath alcohol test according to the Husky Superior Drug and Alcohol Program will be needed.
- C. The Safety Manager, other member of the Safety Department or the Shift Foreman/Employee's Supervisor should accompany the injured employee to the medical facility to assure prompt and immediate medical attention is obtained. The medical facility will direct proper medical attention/treatment.

EVENINGS, WEEKENDS, HOLIDAYS

If an employee is injured Monday through Friday, after 5:00 PM, on a Saturday, Sunday, or holiday, the shift supervisor will follow these guidelines.

Minor Injuries

All injured employees who require more than in-house first aid, (i.e. lacerations requiring stitches, severe eye problems, severe strains/sprains or fractures) will be sent to the following medical facility:

Essentia St. Mary's Emergency Room 3500 Tower Ave Superior, WI 54880 Phone: (715) 817-7100

Serious Injury

Some injuries may be such that immediate outside medical attention is required. If it has been determined that the injury is not life threatening but will require outside medical attention, the injured employee should be transported either by company vehicle or by ambulance. Unless directed by ambulance or other emergency responders, the employee should be transported to the Emergency Room at Essentia St. Mary's Superior or Duluth.

- A. The immediate supervisor shall contact the Safety Department and advise of the injured employee.
- B. The Supervisor or the Safety Manager will notify Essentia that an employee of Husky Superior is in route and give them a brief description of the employee's condition.
 - a. If requested by the Employee's Supervisor, the medical facility will also be advised that a drug screen and breath alcohol test according to the Husky Superior Drug and Alcohol Program will be needed.
- C. The Shift Foreman/Employee's Supervisor, Safety Manager/Safety Department Member or other Husky Superior Employee should accompany the injured employee to the medical facility to assure prompt and immediate medical attention is obtained. The medical facility will direct proper medical attention/treatment.

LIFE THREATENING EMERGENCIES

If the injury is life threatening, the injured employee will be transported to the hospital by ambulance. An injured employee under these conditions will not be transported by a Husky Superior or contractor employee. The supervisor in charge shall call or designate someone to call 911.

Examples of Life Threatening Situations

- a. Employee is unconscious
- b. Severe bleeding
- c. Cyanosis (blue lips, fingernails)
- d. Severe head injury
- e. Severe chest pain, pain radiating down arms
- f. Compound fractures (bones exposed)
- g. Immediate excessive swelling
- h. Hypothermia
- Heatstroke
- j. Stroke

Information for Operator at 911

- a. Give a brief description of the problem. This will enable EMT's to prepare the equipment necessary for the immediate care of the injured employee.
- b. Give direction to the appropriate gate nearest the accident; advise that there will be someone at the gate to escort the emergency vehicle to the site of the accident.

After the 911 call, contact the following:

- a. Call security and advise them of the pending arrival of the emergency vehicle.
- b. Call the Essentia Medical facility that the employee was transported too and advise them that an employee of Husky Superior is in route and give them a brief description of the employee's condition and require a post accident drug/alcohol screen.
- c. Notify either the Safety Manager, on-call personnel (weekends/holidays), or any available member of management.

INJURIES INVOLVING EXPOSURE TO HYDROFLUORIC ACID

For minor exposures, the employee may be transported to Essentia St. Mary's Emergency Room in Superior, the Essentia Duluth Clinic Occupational Medicine Clinic or the Essentia St. Mary's Hospital Emergency Room in Duluth.

For all but minor exposures, the employee should be transported by ambulance to:

St. Mary's Hospital Emergency Room in Duluth: 407 East 3rd Street Duluth. MN 218-786-4000

Follow notification and other procedures as outlined above depending on the time of day that the exposure occurs.

INJURIES INVOLVING THERMAL OR CHEMICAL BURNS

For injuries involving all but minor thermal or chemical burns, employees should be transported by ambulance to:

Essentia Miller-Dwan Burn Center 502 E. Second St., First Floor Duluth, MN (218) 786-2815

Follow notification and other procedures as outlined above depending on the time of day that the exposure occurs.

SUPERVISOR'S INCIDENT/INJURY REPORT

The immediate supervisor shall complete the Supervisor's Incident/Injury Report form as soon as possible after the occurrence, but no later than the end of the shift on which it occurred.

NOTE: Husky Superior is required to notify OSHA within 8-hours of any incident that results in a fatality or the hospitalization of three or more employees. This notification will result in an OSHA investigation of the incident.

ACCESS TO RECORDS

The following records shall be made available, upon request, to any employee and to their representatives for examination and copying at a reasonable time and manner:

- a. OSHA 300 log;
- b. Work Comp First Report of Injury;
- c. OSHA 300A Annual Summary of occupational injuries and illnesses;
- d. Pulmonary function and audiometric testing.
- e. Industrial hygiene sampling records.

Medical records are kept in a confidential file, separate from the personnel file in the general administrative office. These files include the pre-placement physical record and worker's compensation information. Audio and pulmonary medical records are maintained in a separate file in the Safety Department. Employees may inspect their medical records by contacting the Supervisor of Administrative Services.

WORKER'S COMPENSATION

An employee involved in a personal injury has the responsibility to perform the following steps:

- 1. Receive medical attention if needed.
- 2. Report injury to supervision immediately!
- 3. Complete all appropriate forms with supervision.

NOTE: These forms must be completed as soon as possible after the occurrence, but no later than at the end of the shift on which it occurred.

4. Participate in all investigations as necessary.

If an employee has an injury or illness that has not been reported as an accident but the employee believes it is work related, the employee must inform the company of the circumstance of the injury or illness and how it relates to the work place.

When the employee gives notice of an injury, the employee may see a physician of his/her choice. However, Husky Superior reserves the right to send the employee to another doctor for a second opinion at its discretion. In emergencies, Husky Superior may choose the practitioner without offering a choice, but after the emergency, the employee still has the option of seeing his/her own physician. The employee also may change practitioners once, with notice to Husky Superior.

The employee must provide Husky Superior with a doctor's report that provides evidence that the illness/injury is related to the employee workplace.

Clinic/Hospital Information

Minor Injuries - Daytime Hours, Monday through Friday (either):

Essentia SMDC Occupational Medicine Clinic

Duluth Clinic 3rd Street Building

400 E. Third St. Duluth, MN (218) 786-3392

Essentia St. Mary's Occupational Medicine

Rev. 11/08/17

Clinic

3500 Tower Ave Superior, WI (715) 817-7100

Minor Injuries - Evenings, Weekends or Holidays:

Essentia St. Mary's ER - Superior 3500 Tower Ave Superior, WI 54880 (715) 817-7100

Serious Injuries

Unless directed by ambulance or other emergency responders, the employee should be transported to either:

Essentia St. Mary's ER - Superior

3500 Tower Ave

Superior, WI 54880 (715) 817-7100

Essential St. Mary's Hospital ER - Duluth:

407 East 3rd Street

Duluth. MN 218-786-4000

HF Minor Exposures (any of the following):

Essentia St. Mary's ER - Superior

3500 Tower Ave

Superior, WI 54880

(715) 817-7100

Essentia Occup. Medicine Clinic Duluth Clinic - 3rd Street Building

400 E. Third St. Duluth, MN

(218) 786-3392

Essential St. Mary's ER -

Duluth:

407 East 3rd Street

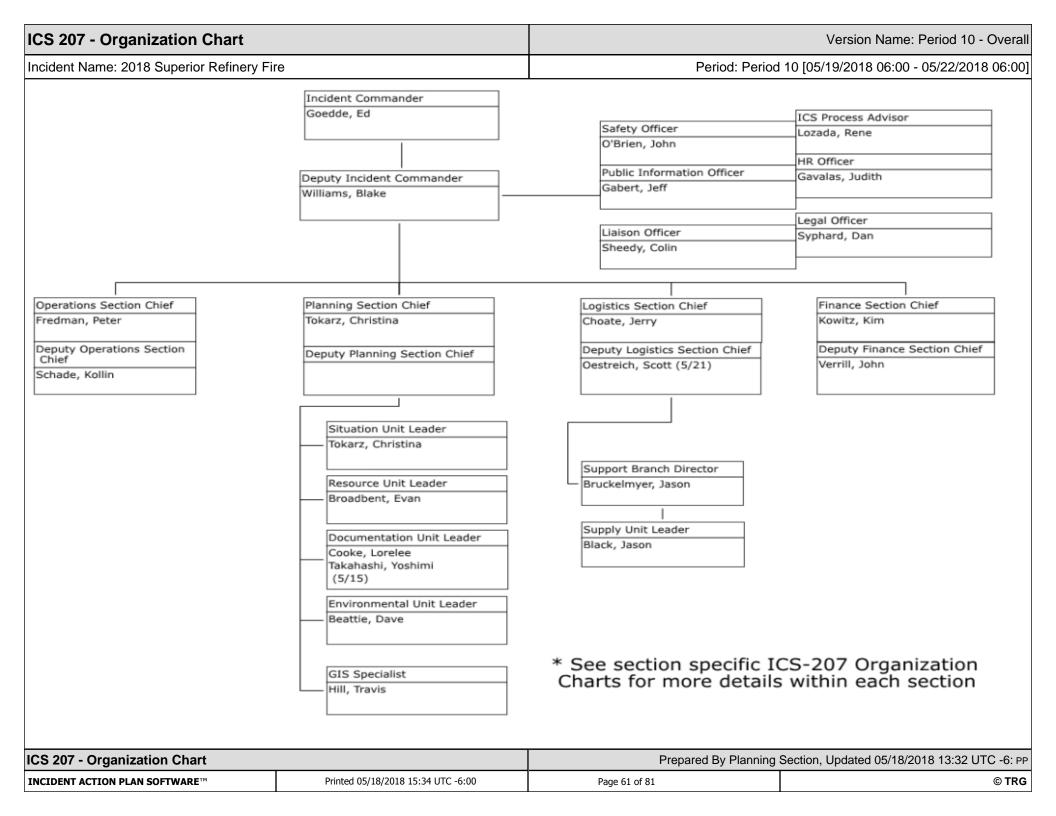
Duluth. MN 218-786-4000

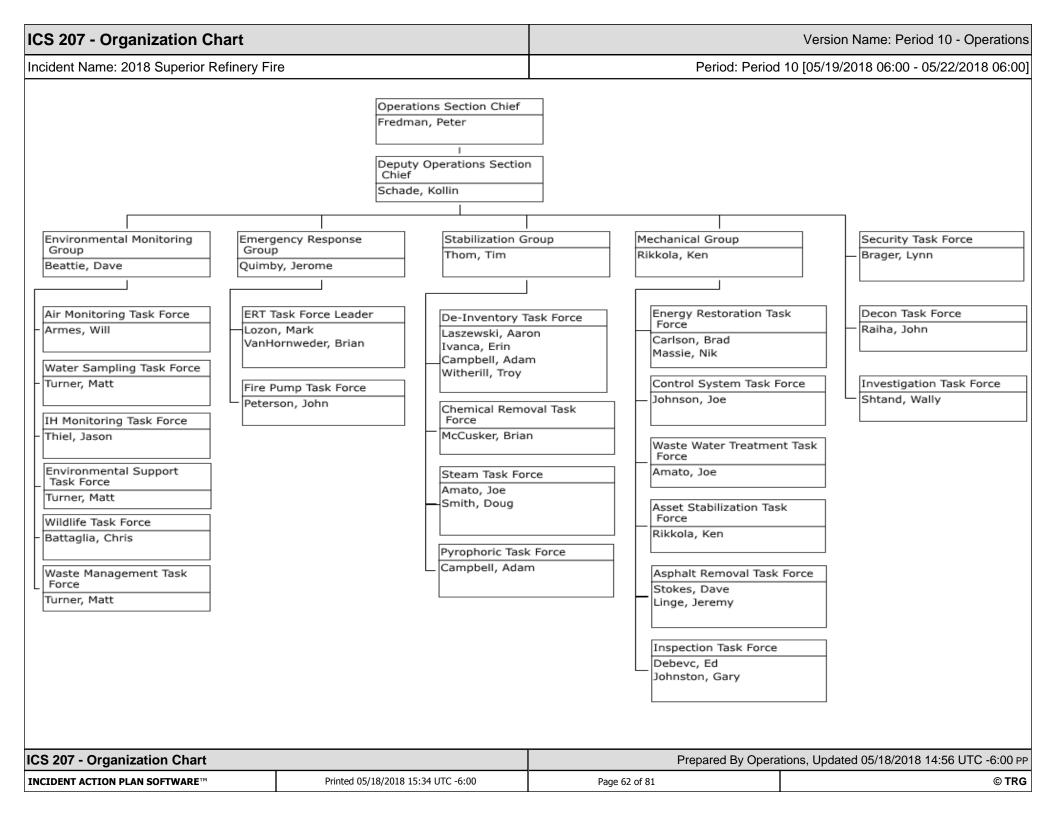
HF Serious Exposures:

Essential St. Mary's Hospital ER - Duluth: 407 East 3rd Street Duluth, MN 218-786-4000

Serious Thermal or Chemical Burns

Essentia Miller-Dwan Burn Center 502 E. Second Street, First Floor Duluth, MN (218) 786-2815





ICS 208 - Site Safety Plan					Version Name: Refinery Site							
Incide	Incident Name: 2018 Superior Refinery Fire					Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]						
Applies to Site: Superior Refinery												
					,	Site Chara	cterizat	tion				
Wate	r		Lan	d				Weather		Sunn	у	
Wave	Heigh	nt	Lan	d Use				Air Temp 44 Fahrenheit				
Spee	d							Wind Sp	eed	13 m	oh	
Direc	tion							Direction	1	NE		
	Site Hazards											
Yes	No	Hazards		Yes	No	Hazards			Yes	No	Hazards	
x		Boat Safety		x		Fire, Explosion, In-situ Burning		X		Pump Hose		
x		Chemical Hazar	ds	х		Heat Stres	SS		х		Slips, Trips, and Falls	
	x	Cold Stress				Helicopter	Operat	ions	x		Steam and Hot	Water
		Confined Space	·S	х		Lifting				x	Trenching/Excav	vation varion
x		Drum Handling		x		Motor Veh	nicles			x	UV Radiation	
x		Equipment Ope	rations	x		Noise				x	Visibility	
x		Electrical Opera	tions	x		Overhead	/Buried	Utilities	x		Weather	
x		Fatigue		x		Plants/Wil	dlife		x		Work Near Wate	er
					1	Air Monito	ring Lin	nits				
Oxyg							11	PPM	1 Carbon Moxide 35 PPM			
LEL	22.5% LEI 5% Total I			tal Hvd	al Hydrocarbons 500 PF		PPM	M Hydroflouric Acid 3 F		3 PPM		
			,				Sulfur Dioxide 2 PPM					
				\perp					сс			
					_	Engineerin	g Conti	rols				
	Source of release secured		ured		Valve(s) closed					Energy sources locked/tagged ou		/tagged out
	Site s	ecured				y shut dow		_				
		·				Protective	Equipm	ent Requ		In .		
	<u> </u>	vious suit		X					X	Boots		
		gloves gloves		X	Respirators				X	Bunker Gear ERT SCBA		
x		e resistant clothin	<u>α</u>	x	Eye protection Personal flotation			x	EKI	SCBA		
	I Iam	7 TOSISTATIT GIOTITI	9			Control M		e Fetablie	hed			
x	Deco	ntamination		x	Illumir		casarca	3 L3tabii3		Addit	ional stations esta	ablished
	Sanitation			Medical surveillance			nce			Facilities provided		
					11110		Plan			1 5.5		
x	Boom	ing		ΙП	Excav				П	Hot w	/ork	
	Skimming			x Heavy equipmen			nt		x	Appropriate permits used		ed
x												
x				ing				L				
Training												
x		ed site workers tra		cal/fed	leral	Training	onte					
regulatory requirements Requirements												
						ohn, Up	dated 05/15/2018 0					
INCID	ENT ACT	ION PLAN SOFTWARE	™ Printed (05/18/20	18 15:34	UTC -6:00		Page 63	of 81			© TRG

ICS 208 - Site Safety Plan					Version Name: Refinery Site					
Incident Name: 2018 Superior Refinery Fire					Period: Period 10 [05/19/2018 06:00 - 05/22/2018 06:00]					
				Orgar	izatio	n				
Posit	tion	Name	T.	Telephone/Radio	Position			Name	Telephone/Radio	
			403-542-1338	Safety Officer		O'Brien, John	218-390-4367			
	ıty Incident mander	Harris, Paul	7	780 522-5060	Operations Section Chief			Fredman, Peter	320-288-6161	
				Emerge	ncy P	lan				
х	Fire Prevention P	lan	X	Evacuation Plan)					
х	Alarm System		X	First Aid Location	n					
				Notifi	cation	s				
	Facility			Phone		Facility			Phone	
X	Hospital Essential St. Mary's Hospital			218-786-4000	X	Fire		Superior Fire Department	911	
X	Ambulance	Gold Cross		911	X	Law Enforcement		Superior Police Department	911	
	Air Ambulance				x	x Emergency Response/Rescu		ERT	Radio	
				Initial	Briefii	ng				
x	Initial safety briefi	ng prepared for e	ach s	site						
				Attachment	s/App	endices				
Atta	chment			Filename						
SDS	s are available on t	he Refinery Intrar	netrt	f SDSs are avail	able o	n the Refine	ry Intra	netrtf		

ICS 208 - Site Safety Plan		Prepared By O'Brien, John, Upda	ated 05/15/2018 07:24 UTC -6:00 PP
INCIDENT ACTION PLAN SOFTWARE™	Printed 05/18/2018 15:34 UTC -6:00	Page 64 of 81	© TRG

Superior Refinery Fire

Asset Assessment Plan – Crude Unit

Authored by: Grey Synton to DEBEVC
Date: 16 MAY 18
Approved by:
Operations Section Chief:
Planning Section Chief:
Safety Officer: Rer 2045 + Abbush Plan
Investigation Lead: Wally Shtand Mally Shtand
Incident Commander:
Prepared by Operations Section

		*	
	*		



CINCINNATI • HOUSTON • NEW ORLEANS • WALLER CALGARY (STRESS ENGMERRING SERVICES CHANDA) • SINGAPORE (STRESS ENGMERRING SERVICES PIE. LTD.)

MEMORANDUM

DATE: May 8, 2013

TO: To whom it may concern

FROM: Arun Sreeranganathan, Ph.D., P.E.

RE: SES Field Hardness Measurement Protocol for TeleBrineller, Rev1

This memo documents the field hardness measurement protocol established by Stress Engineering Services, Inc. (SES) when using TeleBrineller portable hardness tester.

1.0 <u>Surface Preparation</u> - The area of measurement shall be cleaned of oxide, oil, dirt, or other contamination. The aim is to smoothen the area to such an extent that the indentation is large compared to the surface roughness. This may require successive grinding with progressively finer grit size flapper wheels up to 240-grit. In some cases, initial grinding with a stone disk may be necessary to remove the oxide layer, or even to remove pits and scratches.

2.0 Hardness Measurement

- 2.1 Reference Bars Appropriate reference bars that are properly calibrated shall be used at each location. An accuracy of \pm 5% is consistently attainable, provided that the Brinell hardness number (BHN) of the test bar does not differ from the BHN of the test piece by more than 15%. Note that one or more 'trial' measurements might be required to determine the appropriate reference bar to be used at any given location.
- 2.2 Indentation Measurement Measure the diameter of each indentation at two locations (d₁ & d₂) right angles to each other. The mean of the two measurements shall be used for the calculation of the hardness number. When indentations are made on a curved surface, the minimum radius of curvature of the surface shall be two and a half times the diameter of the ball. Indentations made on curved surfaces may be slightly elliptical rather than circular in shape. In such cases, the measurements of the indentation shall be taken as the mean of the major and minor axes.
- 2.3 *Indentation Spacing* The distance between the centers of two adjacent indentations shall be at least three times the diameter of the mean indentation.
- 2.4 Number of Measurements A minimum of three measurements (five measurements are preferred) shall be performed at each area of measurement (making sure that the spacing guidelines given in Section 2.3 are followed).
- 2.5 Location Identifier The location of the measurement shall be noted on a drawing or sketch of the equipment, with an identifying letter or number code, sufficient to allow follow up investigation at the same point.



7030 Stress Engineering Way, Mason, Ohio 45040-7386 Phone: (513) 336-6701 Fax: (513) 336-6817 Web: www.stress.com

CINCINNATI • HOUSTON • NEW ORLEANS • WALLER
CALGARY (Stress encineering services change) • SINGAPORE (Stress encineering services ptr., Ltd.)

2.6 Fire Assessment – If the aim of the hardness measurements is to assess fire damage, the measurements shall be performed in the base metal, away from the weld joints. No measurements shall be made within two inches of a weld joint.

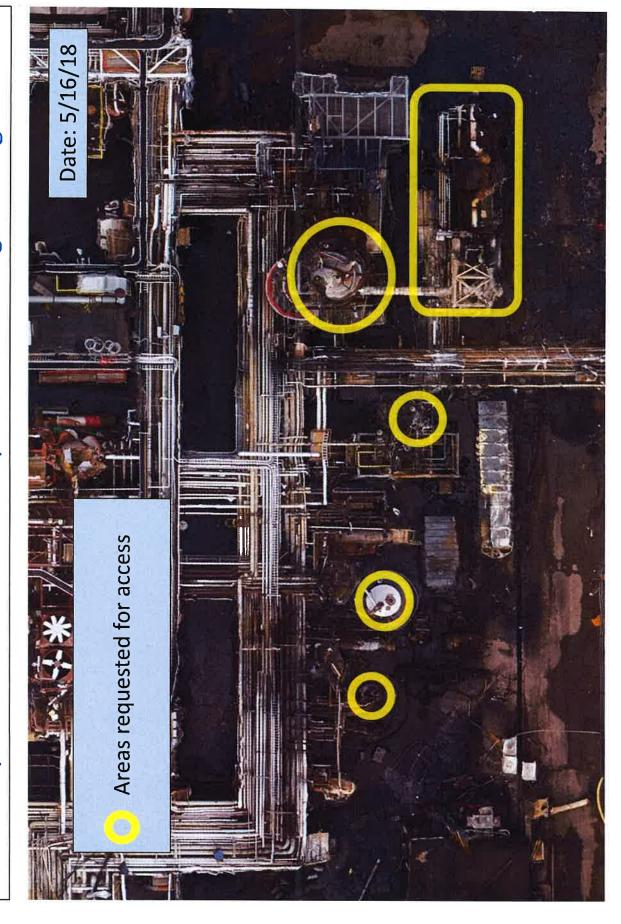
3.0 Reporting

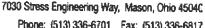
The report sheet shall contain the following information:

an employee-owned company

- 3.1 Date
- 3.2 Examiner's name
- 3.3 Component (vessel, piping identifier)
- 3.4 Description of measurement locations (location identifiers per Section 2.5, any anomalies observed, etc.)
- 3.5 Diameter measurements d₁ & d₂ per Section 2.2
- 3.6 Hardness of the reference bar used
- 3.7 Hardness measurements

Visual Inspection/NDE Access Request - Stress Engineering Services





HOUSTON . CINCINNATI . NEW ORLEANS



Phone: (513) 336-6701 Fax: (513) 336-6817

BATON ROUGE . CALGARY (STRESS ENGINEERING SERVICES CANADA)

MEMORANDUM

DATE: 5-16-18

TO: Gary Johnston

FROM: Franklin Perry

RE: 04C-V06, Naptha Splitter, Inspection Request (Rev. 0)

04C-V06 Naptha Splitter

The following inspection items are required at all locations specified on the attached drawing. This is a preliminary inspection due to limited access. Further inspection will be necessary to deem the vessel fit for service.

- 1. The deformed lower platform is blocking part of the exposed shell. Assess if safe access to the exposed shell is possible to each side of the platform.
- 2. Perform Brinell hardness testing at accessible locations marked on the attached drawing, with surfaces prepared by hand file. Refer to Stress Engineering Field Hardness Measurement Protocol for Telebrineller, Rev. 1 for hardness testing requirements.
- 3. Perform UT thickness measurement at all hardness measurement locations except on flanges.
- 4. Visually inspect all nozzle faces for signs of distortion.

04C-V06 **Stress Engineering Services** Franklin Perry – 5/16/2018 Attachment to: 04C-V06 Inspection Memo (Rev. 0) **Privileged and Confidential** Prepared at the Request of Counsel ZONE **Shell Hardness Locations** ZONE ZONE





HOUSTON • CINCINNATI • NEW ORLEANS
BATON ROUGE • CALGARY (STRESS ENGINEERING SERVICES CANADA)

MEMORANDUM

DATE: 5-16-18

TO: Gary Johnston

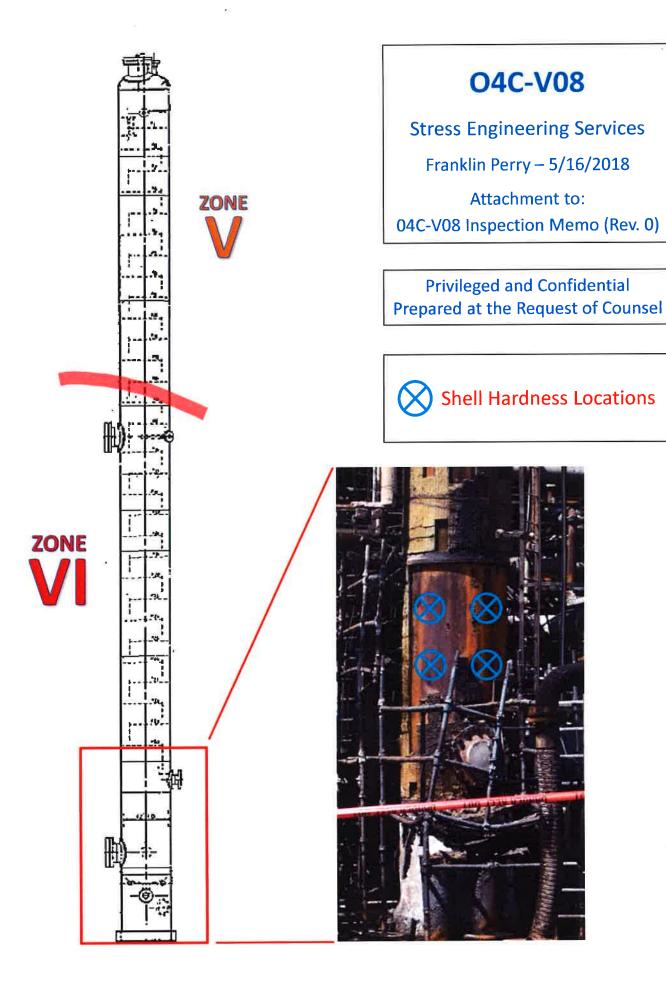
FROM: Franklin Perry

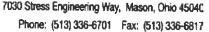
RE: 04C-V08, LSR Stabilizer Column, Inspection Request (Rev. 1)

04C-V08 LSR Stabilizer Column

The following inspection items are required at all locations specified on the attached drawing. This is a preliminary inspection due to limited access. Further inspection will be necessary to deem the vessel fit for service.

- 1. Perform Brinell hardness testing at accessible locations marked on the attached drawing, with surfaces prepared by hand file. Refer to Stress Engineering Field Hardness Measurement Protocol for Telebrineller, Rev. 1 for hardness testing requirements.
- 2. Perform UT thickness measurement at all hardness measurement locations except on flanges.
- 3. Visually inspect all nozzle faces for signs of distortion.





STRESS ENGINEERING SERVICES INC. an employee-owned company

HOUSTON . CINCINNATI . NEW ORLEANS

BATON ROUGE - CALGARY (STRESS ENGINEERING SERVICES CANADA)

MEMORANDUM

DATE: 5-16-18

TO: Gary Johnston

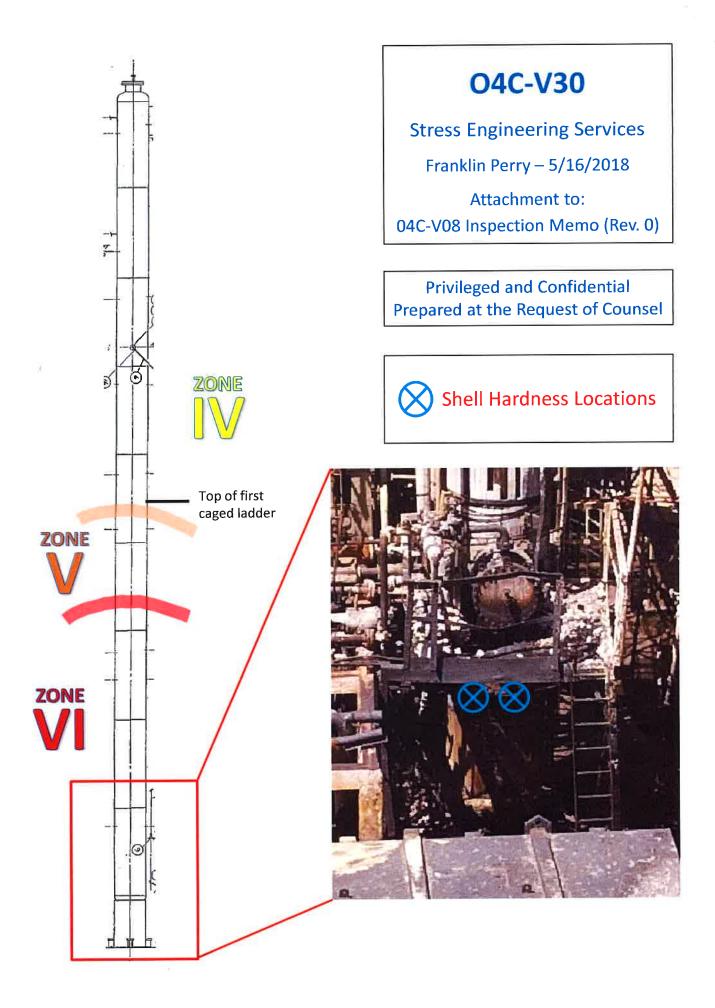
FROM: Franklin Perry

RE: 04C-V30, Deethanizer, Inspection Request (Rev. 0)

04C-V30 Deethanizer

The following inspection items are required at all locations specified on the attached drawing. This is a preliminary inspection due to limited access. Further inspection will be necessary to deem the vessel fit for service.

- 1. Perform Brinell hardness testing at accessible locations on the shell under the lower platform marked on the attached drawing, with surfaces prepared by hand file. Refer to Stress Engineering Field Hardness Measurement Protocol for Telebrineller, Rev. 1 for hardness testing requirements.
- 2. Perform UT thickness measurement at all hardness measurement locations except on flanges.

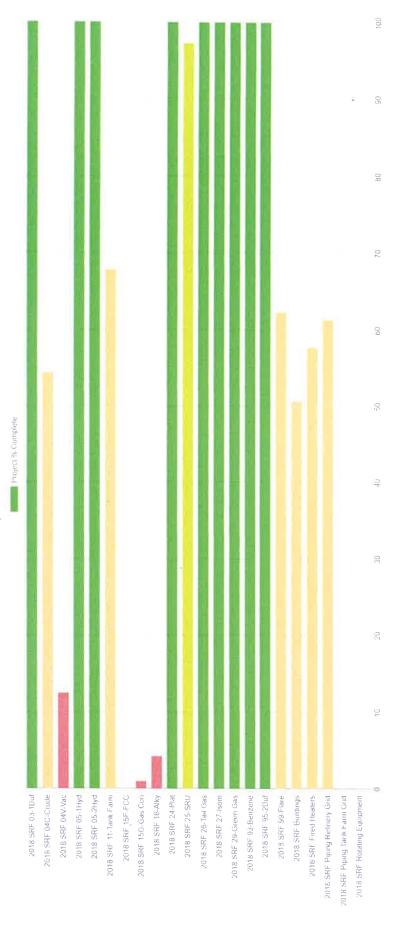


Superior Refinery, Tracking

5/17/2018

Project Progress Chart

Tatracking



		е	
			×.
· , _			

Superior Refinery Fire

Hot Zone PPE Requirement Change

Authored by: Peter Fredman
Date: $\frac{5/18/2018}{}$
Approved by:
Approved by:
Operations Section Chief:
Safety Officer:
Incident Commander:

Prepared by Operations Section

Hot Zone PPE Requirements Risk Analysis

In order to more effectively execute the incident objectives of incident stabilization, evidence preservation, and minimizing environmental impacts while ensuring the safety of the public and refinery personnel, the following revisions will be made to the Hot Zone PPE requirements.

Current Hot Zone PPE Requirements:

- Bunker Gear
- 4 gas monitor and Radio (1/Team)
- H2S Personal Monitor
- ERT Escort (ERT SCBA ready)

Revised Hot Zone PPE Requirements:

- Refinery PPE (FRC)
- 4 gas monitor and Radio (1/Team)
- H2S Personal Monitor
- Minimum 2 Person Teams

Based on an evaluation of the primary hazards listed below, it is appropriate to remove the requirement to wear bunker gear and be escorted by ERT members in the hot zone. The risk of flash fire injuries is reduced through use refinery FRC, continuous air monitoring, and in conjunction with immediate evacuation policies. At this time, other hazards outweigh the difference in flash fire protection between FRC and Bunker gear.

<u>Hazard Analysis -</u> There are 4 primary hazards within the hot zone:

- Asbestos Exposure
- Heat Exhaustion
- Flash Fire
- Fire Response

<u>Asbestos Exposure:</u> During asbestos remediation activates, additional PPE is required such as double Tyvek suits and half mask respirators. When worn in conjunction with bunker gear, elevated risks of Heat Exhaustion and Physical Exhaustion are likely to occur. If only bunker gear is worn, workers would not meet the PPE requirements to remediate asbestos.

<u>Heat Exhaustion:</u> Moving into the summer months, Heat Exhaustion is a growing risk while wearing bunker gear. Minimizing the duration of time spent wearing bunker gear becomes more difficult if additional layers of PPE are worn on top. In addition, in order to properly decontaminate the Tyvek suits, additional time needs to be spent in decontamination areas that extend the duration bunker gear would need to be worn.

<u>Flash Fire</u>: A flash fire is a fire that spreads rapidly through a diffuse fuel, such as dust, gas, or the vapors of an ignitable liquid, without the production of damaging pressure. In a flash fire event, flame-retardant treated clothing (FRC) is required by refinery safety policy. Both Refinery FRC and Bunker Gear

are designed to provide protection in the event of a flash fire. The outer shell of Bunker gear is made out of FRC material. The protection provided by bunker gear includes:

- Thermal Liner Provides thermal protection and heat stress reduction.
- Moisture Barrier Provides resistance to water, chemicals, and viral agents.
- Outer Shell Provides flame resistance and also protects firefighters from cuts and abrasions while they are on scene.

The additional capabilities of Bunker Gear are primarily beneficial in a fire response scenario. FRC will provide flame resistance as does the Bunker Gear.

In order to reduce the risk of a flash fire, refinery operators monitor the units every 4 hours to log pressure readings. There is also continuous air monitoring within the hot zone for VOC's to alert workers of increases in flammable gases in the air. 4 – gas monitors are required for every team entering the area which provide LEL reading in the event a flammable atmosphere has started to form. In the event of an elevated LEL reading (>5%), workers are required to stop work and evacuate the area upwind. In the event of a flash fire, workers are to evacuate the area.

Fire Response: Bunker gear is required for ERT Support operations and fire response.